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A decorative graphic consisting of a large number of small, colored circles (dots) in various colors (blue, green, yellow, red, orange, purple, pink, etc.) arranged in a curved, upward-pointing arrow shape. The dots are scattered along the path of the arrow, which starts from the bottom left and points towards the top right. The background is a dark blue gradient.

# Proteome Profiler™ Antibody Arrays

The logo for biotechne, featuring the word 'biotechne' in a white, lowercase, sans-serif font. The 'i' in 'biotechne' has a dot that is replaced by a stylized 'e' shape. A registered trademark symbol (®) is located at the end of the word.

biotechne®

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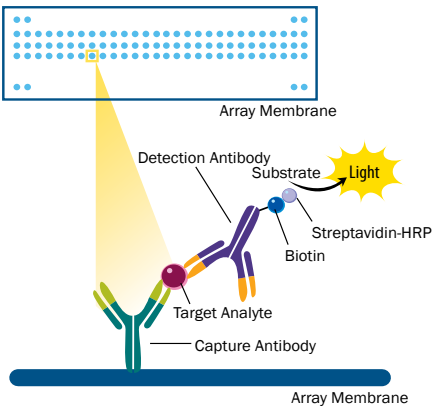
# When You Need a Simple Sample Screening Solution

If you need to investigate multiple analytes, traditional complex sample screening methods, such as Western blot and immunoprecipitation can be expensive in time and money.

Proteome Profiler Antibody Arrays offer quick and inexpensive analysis of multiple analytes in a simple assay. Using a simple two site sandwich assay principle, it allows investigation of up to 119 analytes in a single sample.

With 30 different arrays available for use with multiple validated sample types, there is always an Array that can help accelerate your research.

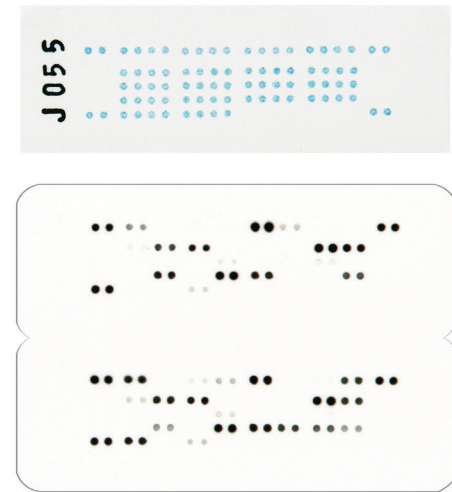
## Simple Technology that doesn't need Specialized Equipment



If your lab is set up for Western blotting, then you already have all the equipment needed to use our antibody arrays.

Samples are simply incubated with membranes spotted with specific capture antibodies. Captured analyte is detected using a cocktail of biotinylated antibodies and positive spots are visualized using an appropriate detection system.

## Superior Performance & Conscientious Design



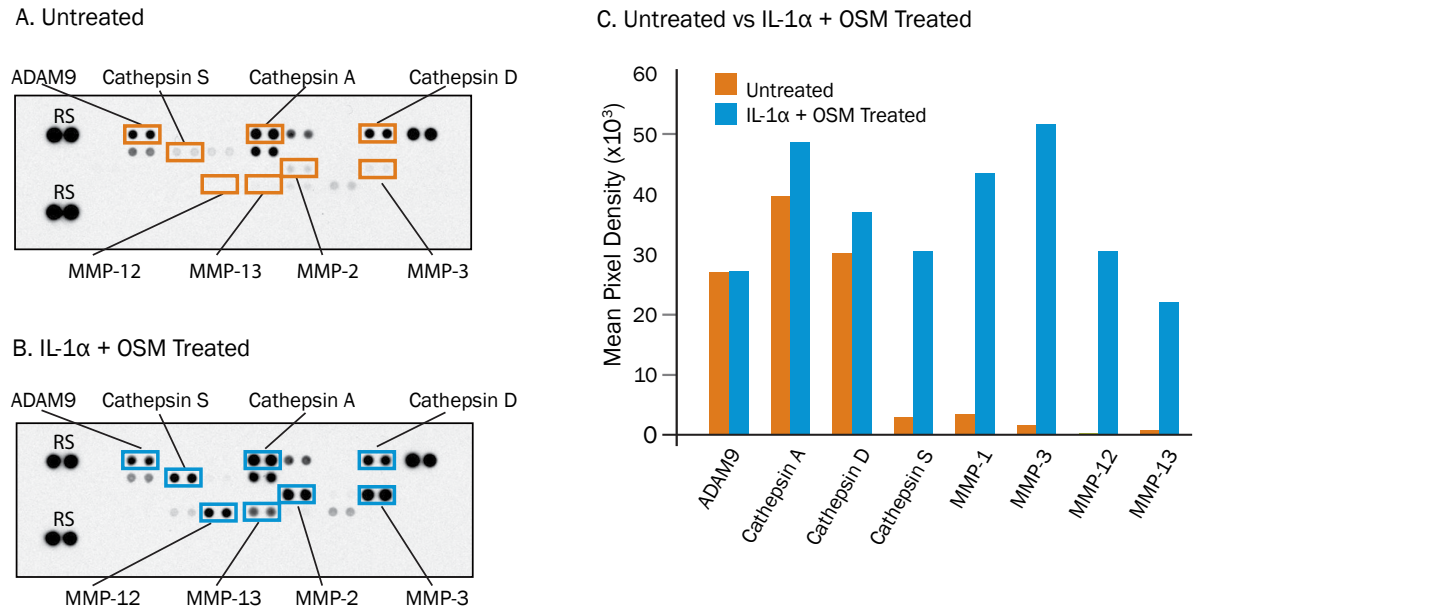
Human Cytokine Array Panel A (Cat# ARY005B) PBMCs untreated (top) or treated with 10 µg/mL PHA for 5 days (bottom). 500 µL of cell culture supernate was run on each array. A 5 minute exposure to film is shown

Spotted in duplicate on nitrocellulose membrane, you are guaranteed consistent analyte signal detection from our validated antibodies in every experiment you perform. All array antibody pairs are optimized to provide the most accurate and reliable data.

Simple and Powerful Sample Analysis

Cost-Effective Analyte Profiling

Quickly identify the changes of multiple analytes in your samples using Proteome Profiler Arrays. Move your research forward quickly by easily profiling analyte levels and identification of trends between and within samples – all from a single assay.

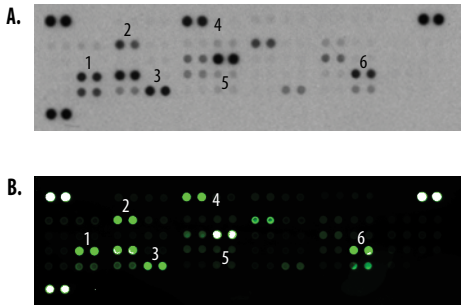


Simultaneous Detection of Multiple Proteases Following Treatment with IL-1α and Oncostatin M (OSM) The Proteome Profiler Human Protease Antibody Array (Catalog # ARY021B) was used to simultaneously assess protease levels in human chondrosarcoma cell lysates. Cells were either untreated (A) or treated (B) with Recombinant Human IL-1α (Catalog # 200-LA) and Recombinant Human OSM (Catalog # 295-OM). Chemiluminescence was detected using x-ray film and histogram profiles (C) for select analytes were generated by quantifying the mean spot pixel densities using standard imaging software.

Choose the Detection Method that Best Fits Your Needs

Results can be visualized on all arrays using supplied optimised chemiluminescent substrates. To give you choice, LI-COR near-infrared (NIR) fluorescent detection can also be used on select arrays. For protocol information go to this link: [rndsystems.com/protocols](https://rndsystems.com/protocols).

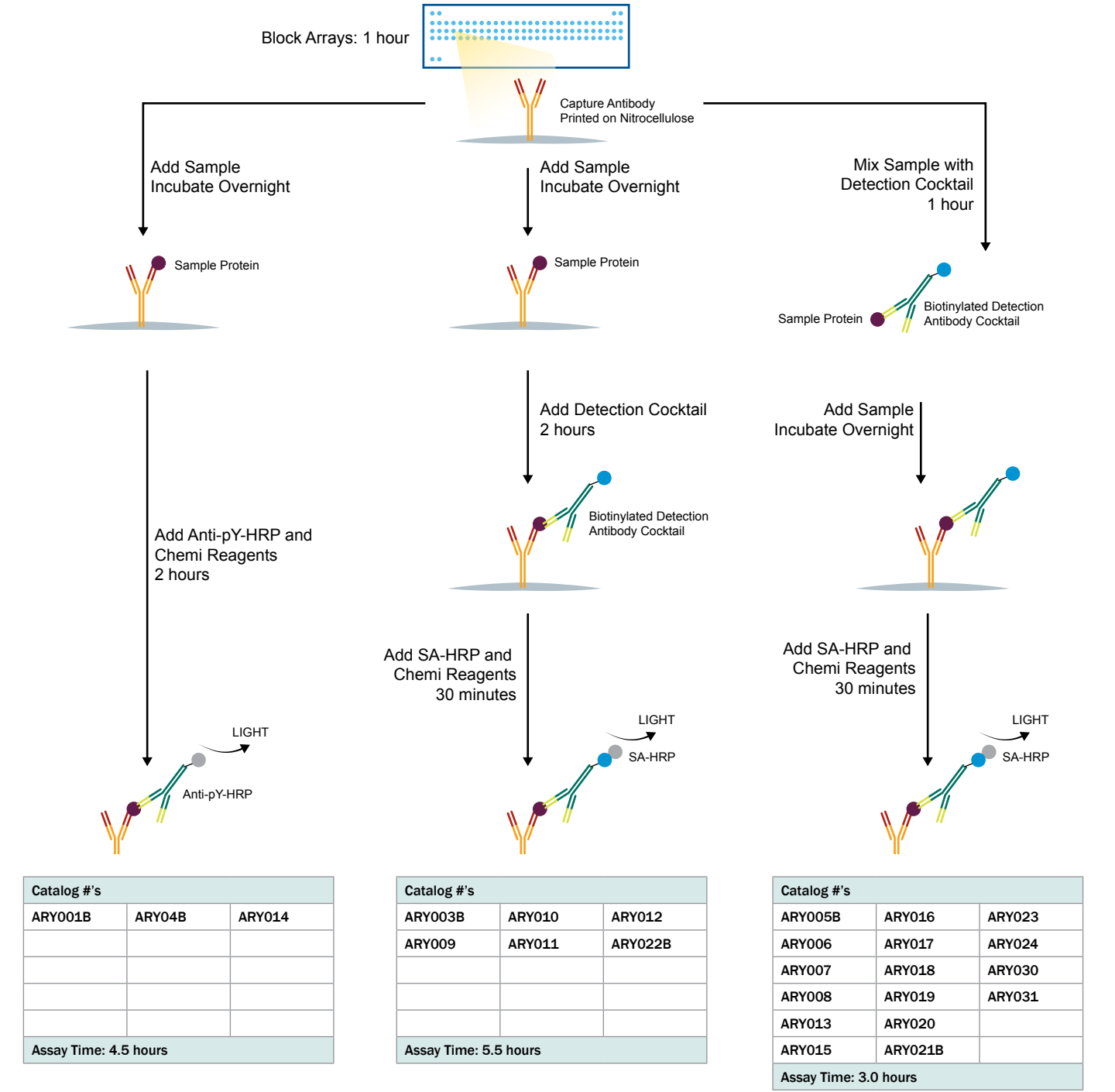
Both chemiluminescence and fluorescence based Proteome Profiler™ Antibody Array Kits can be quickly and accurately analyzed by FluorChem™ systems with AlphaView software. For more information: [rndsystems.com/fluorchemdata](https://rndsystems.com/fluorchemdata)



A chemiluminescence image on X-ray film of a Proteome Profiler Human Angiogenesis Array (Catalog # ARY007) (A) is compared to an image where IRDye 800CW Streptavidin (LI-COR Catalog # 926-32230) was used in place of Streptavidin-HRP (B). LI-COR software was used to perform image analysis for select analytes.

Multiple Analyte Results in only 5.5 Hours

To help you make the most of your time and resources, all Array protocols are streamlined to make sure you can get results quickly and simply.



Kits Available

Human

| Human Adipokine Array Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4 Tests               |
| Contains 4 membranes – each spotted in duplicate with 58 different obesity-related antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       |
| Adiponectin, Angiopoietin-1, Angiopoietin-2, Angiopoietin-like 2, Angiopoietin-like 3, BAFF/BLyS, BMP-4, Cathepsin D, Cathepsin L, Cathepsin S, CCL2/MCP-1, CCL5/RANTES, Chemerin, Complement Factor D, C-Reactive Protein, CXCL8/IL-8, DPPIV/CD26, Endocan, EN-RAGE, Fetuin B, FGF basic, FGF-19, Fibrinogen, Growth Hormone, HGF, ICAM-I, IGFBP-2, IGFBP-3, IGFBP-4, IGFBP-6, IGFBP-rp1/IGFBP-7, IL-1 β, IL-6, IL-10, IL-11, LAP (TGF-β1) , Leptin, LIF, Lipocalin-2/NGAL, M-CSF, MIF, Myeloperoxidase, Nidogen-1/Entactin, Oncostatin M, Pappalysin-1/PAPP-A, PBEF/Visfatin, PCSK9, Pentraxin-3, Pref-1/DLK-1/FA1, RAGE, Resistin, Serpin A12, Serpin A8/AGT, Serpin E1/PAI-1, TIMP-1, TIMP-3, TNF-α, VEGF |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Suggested Sample Size |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 200–500 µL            |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 100–200 µg            |
| Serum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 50–200 µL             |
| Plasma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 50–200 µL             |
| Human Milk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 50–200 µL             |
| Urine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 50–200 µL             |
| Saliva                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 50–200 µL             |

| Human Angiogenesis Array Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4 Tests               |
| Contains 4 membranes – each spotted in duplicate with 55 different angiogenesis-related antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |
| Activin A, ADAMTS1, Angiogenin, Angiopoietin-1, Angiopoietin-2, Angiostatin/Plasminogen, Amphiregulin, Artemin, CCL2/MCP-1, CCL3/MIP-1α, Coagulation Factor III/TF, CXCL4 /PF4, CXCL8/IL-8, CXCL16, DPPIV, EGF, EG-VEGF, Endoglin, Endostatin/Collagen XVIII, Endothelin-1, FGF acidic, FGF basic, FGF-4, FGF-7, GDNF, GM-CSF, HB-EGF, HGF, IGFBP-1, IGFBP-2, IGFBP-3, IL-1β, LAP (TGF-β1), Leptin, MMP-8, MMP-9, NRG1-β1, Pentraxin 3, PD-ECGF, PDGF-AA, PDGF-AB/BB, Persephin, PlGF, Prolactin, Serpin B5, Serpin E1/PAI-1, Serpin F1/PEDF, TIMP-1, TIMP-4, Thrombospondin-1, Thrombospondin-2, uPA, Vasohibin, VEGF, VEGF-C |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Suggested Sample Size |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 500 µL (up to 1 mL)   |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 200 µg                |
| Serum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100 µL                |
| Tissue Lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 200 µg                |
| Plasma (EDTA/Heparin)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100 µL                |
| Saliva                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100 µL                |

| Human Apoptosis Array Kit                                                                                                                                                                                                                                                                                                                                                                                |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY009                                                                                                                                                                                                                                                                                                                                                                                         | 4 Tests               |
| Contains 4 membranes – each spotted in duplicate with 35 different apoptosis-related antibodies                                                                                                                                                                                                                                                                                                          |                       |
| Bad, Bax, Bcl-2, Bcl-x, Pro-Caspase-3, Cleaved Caspase-3, Catalase, Claspin, Clusterin, Cytochrome c, FADD, Fas/TNFRSF6, HIF-1α, HO-1/HMOX1/HSP32, HO-2/HMOX2, HSP27, HSP60, HSP70, HTRA2/Omi, ciAP-1, ciAP-2, Livin, p21/CIP1, p27/Kip1, PON2, Phospho-p53 (S15), Phospho-p53 (S46), Phospho-p53 (S392), Phospho-Rad17 (S635), SMAC/Diablo, Survivin, TNF RI/TNFRSF1A, TRAIL R1/DR4, TRAIL R2/DR5, XIAP |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                                    | Suggested Sample Size |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                                             | 200–500 µg            |

| Human Cell Stress Array Kit                                                                                                                                                                                                                                                                           |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY018                                                                                                                                                                                                                                                                                      | 4 Tests               |
| Contains 4 membranes – each spotted in duplicate with 26 different cell stress-related antibodies                                                                                                                                                                                                     |                       |
| ADAMTS1, Bcl-2, Carbonic Anhydrase IX, Cited-2, COX-2, Cytochrome c, Dkk-4, FABP1/L-FABP, HIF-1α, HIF-2α, Phospho-HSP27 (S78/S82), HSP60, HSP70, IDO, Phospho-JNK pan (T183/Y185), NFκB1, p21/CIP, p27/KIP, Phospho-p38α (T180/Y182), Phospho-p53 (S46), PON1, PON2, PON3, Thioredoxin-1, SIRT2, SOD2 |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                 | Suggested Sample Size |
| Cell Lysates                                                                                                                                                                                                                                                                                          | 100–300 µg            |
| Tissue Lysates                                                                                                                                                                                                                                                                                        | 100–300 µg            |

| Human Chemokine Array Kit                                                                                                                                                                                                                                                                                                                                                                                                        |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY017                                                                                                                                                                                                                                                                                                                                                                                                                 | 4 Tests               |
| Contains 4 membranes – each spotted in duplicate with 31 different chemo-kine antibodies                                                                                                                                                                                                                                                                                                                                         |                       |
| CCL1/I-309, CCL2/MCP-1, CCL3/CCL4 (MIP-1α/MIP-1β), CCL5/RANTES, CCL7/MCP-3, CCL14/HCC-1/HCC-3, CCL15/MIP-1δ/LKN-1, CCL17/TARC, CCL18/PARC, CCL19/MIP-3β, CCL20/MIP-3α, CCL21/6Ckine, CCL22/MDC, CCL26/Eotaxin-3, CCL28, Chemerin, CX3CL1/Fractalkine, CXCL1/GROα, CXCL4/PF4, CXCL5/ENA-78, CXCL7/NAP-2, CXCL8/IL-8, CXCL9/MIG, CXCL10/IP-10, CXCL11/I-TAC, CXCL12/SDF-1, CXCL16, CXCL17/VCC-1, IL-16, Midkine, XCL1/Lymphotactin |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                                                            | Suggested Sample Size |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                                                                                                          | 200–500 µL            |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                                                                     | 100–200 µg            |
| Serum                                                                                                                                                                                                                                                                                                                                                                                                                            | 50–200 µL             |
| Tissue Lysates                                                                                                                                                                                                                                                                                                                                                                                                                   | 100–200 µg            |
| Plasma (EDTA/Heparin)                                                                                                                                                                                                                                                                                                                                                                                                            | 50–200 µL             |
| Saliva                                                                                                                                                                                                                                                                                                                                                                                                                           | 250 µL                |
| Urine                                                                                                                                                                                                                                                                                                                                                                                                                            | 500 µL                |

Human

| Human Cytokine Array Kit, Panel A                                                                                                                                                                                                                                                                                                       |                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY005B                                                                                                                                                                                                                                                                                                                       | 4 Tests               |
| Contains 4 membranes – each spotted in duplicate with 36 different cytokine antibodies                                                                                                                                                                                                                                                  |                       |
| C5a, CCL1/I-309, CCL2/MCP-1, CCL3/MIP-1α, CCL4/MIP-1β, CCL5/RANTES, CD40 Ligand, CXCL1/GROα, CXCL8/IL-8, CXCL10/IP-10, CXCL11/I-TAC, CXCL12/SDF-1, G-CSF, GM-CSF, ICAM-1, IFN-γ, IL-1α, IL-1β, IL-1ra, IL-2, IL-4, IL-5, IL-6, IL-10, IL-12 p70, IL-13, IL-16, IL-17, IL-17E, IL-23, IL-27, IL-32α, MIF, Serpin E1/PAI-1, TNF-α, TREM-1 |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                   | Suggested Sample Size |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                 | 200–700 µL            |
| Cell Lysates                                                                                                                                                                                                                                                                                                                            | 100–300 µg            |
| Serum                                                                                                                                                                                                                                                                                                                                   | 50–200 µL             |
| Tissue Lysates                                                                                                                                                                                                                                                                                                                          | 100–300 µg            |
| Plasma (EDTA/Heparin)                                                                                                                                                                                                                                                                                                                   | 50–200 µL             |

| Human XL Cytokine Array Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY022B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4 Tests               |
| Contains 4 membranes – each spotted in duplicate with 105 different cytokine antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |
| Adiponectin/Acrp30, Angiogenin, Angiopoietin-1, Angiopoietin-2, Apolipoprotein A-I/ApoA1, BAFF/BLyS/TNFSF13B, BDNF, CD14, CD30, CD31/PECAM-1, CD40 Ligand, Chitinase 3-like 1, Complement Component C5/C5a, Complement Factor D, C-Reactive Protein/CRP, Cripto-1, Cystatin C, Dkk-1, DPPIV/CD26, EGF, CXCL5/ENA-78, Endoglin/CD105, EMMPRIN, Fas Ligand, FGF basic, KGF/FGF-7 FGF-19, Flt-3 Ligand, G-CSF, GDF-15, GM-CSF, CXCL1/GROα, Growth Hormone (GH), HGF, ICAM-1/CD54, IFN-γ, IGFBP-2, IGFBP-3, IL-1α/IL-1F1, IL-1 β/IL-1F2, IL-1ra/IL-1F3, IL-2, IL-3, IL-4, IL-5, IL-6, IL-8, IL-10, IL-11, IL-12 p70,IL-13, IL-15, IL-16, IL-17A, IL-18 BPa, IL-19, IL-22, IL-23, IL-24, IL-27, IL-31, IL-32α/β/γ, IL-33, IL-34, CXCL10/IP-10, CXCL11/I-TAC, Kallikrein 3/PSA, Leptin, LIF, Lipocalin-2/NGAL, CCL2/MCP-1, CCL7/MCP-3, M-CSF, MIF, CXCL9/MIG, CCL3/CCL4/MIP-1 α/β, CCL20/MIP-3α, CCL19/MIP-3β, MMP-9, Myeloperoxidase, Osteopontin (OPN), PDGF-AA, PDGF-AB/BB, Pentraxin 3/TSG-14, CXCL4/PF4, RAGE, CCL5/RANTES, RBP4, Relaxin-2, Resistin, CXCL12/SDF-1 α, Serpin E1/PAI-1, SHBG, ST2/IL-1 R4, CCL17/TARC, TFF3, Tfr, TGF-α, Thrombospondin-1, TIM-3, TNF-α, uPAR, VCAM-1, VEGF, Vitamin D BP |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Suggested Sample Size |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 200–500 µL            |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 100–200 µg            |
| Serum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 50–200 µL             |
| Tissue Lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100–200 µg            |
| Plasma (EDTA/Heparin)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 50–200 µL             |

| Human Kidney Biomarker Array Kit                                                                                                                                                                                                                                                                                                                                                       |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY019                                                                                                                                                                                                                                                                                                                                                                       | 4 Tests               |
| Contains 4 membranes – each spotted in duplicate with 38 different kidney biomarker antibodies                                                                                                                                                                                                                                                                                         |                       |
| Adiponectin, Aminopeptidase N, Angiotensinogen, Annexin V, β2-Microglobulin, CCL2/MCP-1, Clusterin, CXCL1/GROα, CXCL16, Cyr61, Cystatin C, DPPIV, EGF, EGF R, FABP1/L-FABP, Fetuin A, IL-1ra, IL-6, IL-10, KIM-1/TIM-1/HAVCR, Lipocalin-2/NGAL, MMP-9, Neprilysin, PSA, RAGE, RBP4, Renin, Resistin, SCF, Serpin A3, TNF-α, TNF RI, TFF3, Thrombospondin-1, TWEAK, uPA, VCAM-1, VEGF-A |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                  | Suggested Sample Size |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                                                                | 200–500 µL            |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                           | 20–500 µg             |
| Urine                                                                                                                                                                                                                                                                                                                                                                                  | 50–500 µL             |
| Tissue Lysates                                                                                                                                                                                                                                                                                                                                                                         | 20–500 µg             |

| Human XL Oncology Array Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4 Tests               |
| Contains 4 membranes – each spotted in duplicate with 84 different cancer-related antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |
| AFP, Amphiregulin, Angiopoietin-1, ANGPTL4, ENPP-2/Autotaxin, AXL, BCL-X, CA125/MUC-16, E-Cadherin, VE-Cadherin, CAP-G, CA-9, Cathepsin B, Cathepsin D, Cathepsin S, CEACAM-5, Decorin, DKK-1, DLL-1, EGF R/ErbB1, Endoglin/CD105, Endostatin, Enolase 2, eNOS, EpCAM, ER-α, ErbB2, ErbB3, ErbB4, FGF basic, FoxC2, FKHR, Galectin-3, GM-CSF, HCG, HGF R/c-Met, HIF-1α, HNF-3β, HO-1/HMOX1, ICAM-1/CD54, CD25/IL-2 Rα, IL-6, CXCL8/IL-8, IL-18 Bpa, KLK-3/PSA, KLK-5, KLK-6, Leptin (OB) , Lumican, CCL2/MCP-1, CCL8/MCP-2, CCL7/MCP-3, M-CSF, Mesothelin, CCL3/MIP-1α, CCL20/MIP-3α, MMP-2, MMP-3, MMP-9, MSP/MST1, MUC-1, Nectin-4, Osteopontin, p27/Kip1, p53, PDGF-AA, CD31/PECAM-1, Progesterone R, Progranulin, Prolactin, Prostatin, E-Selectin, Maspin, PAI-1/Serpin E1, SNAIL, SPARC, Survivin, Tenascin-C, THBS-1, TIE-2, UPA-1, VCAM-1, VEGF, Vimentin |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Suggested Sample Size |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 200–500 µL            |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 100–200 µg            |
| Serum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 50–200 µL             |
| Tissue Lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100–200 µg            |
| Plasma (EDTA/Heparin)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 50–200 µL             |
| Saliva                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 50–200 µL             |
| Urine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 50–200 µL             |
| Human Milk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 50–200 µL             |



Kits Available (continued)

Human

| Human NFκB Pathway Array Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY029                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4 Tests               |
| Contains 4 membranes – each spotted in duplicate with 45 different cytokine antibodies                                                                                                                                                                                                                                                                                                                                                                                                        |                       |
| ASC, BCL10, CARD6, CD40/TNFRSF5, cIAP1/BIRC2, cIAP2/BIRC3, FADD/MORT1, Fas/TNFRSF6/CD95, ikBα, ikBε, IKK1/IKKα/CHUK, IKK2/IKKβ, IKKγ/ NEMO, IL-1 RI, IL-17 RA, IL-18 Rα, IRAK1, IRF5, IRF8, JNK1/2, JNK2, LTBR/ TNFRSF3, Metaherin/AEG-1, MYD88, NFκB1, NFκB2, NGF R/TNFRSF16, p53, p53 (pS46), RelA/p65, RelA/P65 (pS529), c-Rel, SHARPIN, SOCS6, STAT1p91, STAT1 (pY701), STAT2, STAT2 (pY689), STING/TMEM173, TLR2, TNF RI/ TNFRSF1A, TNF RII/TNFRSF1B, TRAF2, TRAIL R1/DR4, TRAIL R2/DR5. |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Suggested Sample Size |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 200–500 µg            |

| Human Phospho-Immunoreceptor Array Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY004B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4 Tests               |
| Contains 4 membranes – each spotted in duplicate with 59 different anti-immu-noreceptor antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |
| 2B4/SLAMF4, BLAME/SLAMF8, BTLA, CD3ε, CD5, CD6, CD28, CD84/SLAMF5, CD229/SLAMF3, CEACAM-1, CLEC-1, CLEC-2, CRACC/SLAMF7, CTLA-4/CD152, DCIR/CLEC4A, Dectin-1/CLEC7A, DNAM-1, Fcε RII/CD23, Fcγ RIIA, Fcγ RIIIA/B, FcRH1/IRTA5, FcRH2/IRTA4, FcRH4/IRTA1, FcRH5/IRTA2, ILT2/CD85j, ILT3/ CD85k, ILT4/CD85d, ILT5/CD85a, ILT6/CD85e, Integrin β3/CD61, KIR2DL4, LAIR-1, LAIR-2, LMIR1/CD300A, LMIR2/CD300C, LMIR3/CD300LF, LMIR6/ CD300LE, MDL-1/CLEC5A, NKp30/NCR3, NKp44/NCR2, NKp46/NCR1, NKp80/KLRF1, NTB-A/SLAMF6, PD-1, PECAM/CD31, SHIP-1, SHP-1, SHP-2, Siglec-2/CD22, Siglec-3/CD33, Siglec-5, Siglec-7, Siglec-9, Siglec-10, SIRP-b1, SLAM/CD150/SLAMF1, TREM-1, TREM-2, TREML1/TLT-1 |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Suggested Sample Size |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 50–500 µg             |

| Human Phospho-Kinase Array Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY003B                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4 Tests               |
| Contains 4 membranes – each spotted in duplicate with 45 different anti-kinase antibodies                                                                                                                                                                                                                                                                                                                                                                                                    |                       |
| Akt (S473)*, Akt (T308)*, AMPKα1*, AMPKα2, βcatenin*, Chk-2, c-Jun*, CREB*, EGF R (Y1068), ERK1/2* , FAK*, Fgr, Fyn*, GSK-3α/β*, Hck, HSP27, HSP60, JNK pan*, Lck, Lyn, MSK1/2*, eNOS, p27 (T198), p38α*, p53 (S392), p53 (S46), p53 (S15), p70 S6 Kinase (T389)*, p70 S6 Kinase (T421/S424)*, PDGF R β (Y751), PLCg-1, PRAS40 (T246), Pyk2, RSK1/2/3*, Src*, STAT2, STAT3*, STAT3 (S727), STAT5a*, STAT5a/b*, STAT5b*, STAT6, TOR*, WNK-1 (T60), Yes<br>* Crossreacts with mouse and/or rat |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Suggested Sample Size |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 200–600 µg            |

| Human Phospho-RTK Array Kit                                                                                                                                                                                                                                                                                                                                                                                    |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY001B                                                                                                                                                                                                                                                                                                                                                                                              | 4 Tests               |
| Contains 4 membranes – each spotted in duplicate with 49 different anti-RTK antibodies                                                                                                                                                                                                                                                                                                                         |                       |
| ALK/CD246, Axl, DDR1, DDR2, Dtk, EGF R, EphA1, EphA2, EphA3, EphA4, EphA5, EphA6, EphA7, EphA10, EphB1, EphB2, EphB3, EphB4, EphB6, ErbB2, ErbB3, ErbB4, FGF R1, FGF R2α, FGF R3, FGF R4, Flt-3/Flk-2, HGF R/c-MET, IGF-I R, Insulin R/CD220, M-CSF R, Mer, MSP R/Ron, MuSK, PDGF Rα, PDGF Rβ, c-Ret, ROR1, ROR2, Ryk, SCF R/c-kit, Tie-1, Tie-2, TrkA, TrkB, TrkC, VEGF R1/ Flt-1, VEGF R2/KDR, VEGF R3/Flt-4 |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                                          | Suggested Sample Size |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                                                                                        | 200–500 µL            |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                                                   | 20–300 µg             |
| Serum                                                                                                                                                                                                                                                                                                                                                                                                          | 10–50 µL              |

| Human Protease Array Kit                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY021B                                                                                                                                                                                                                                                                                                                                                                                                                         | 4 Tests               |
| Contains 4 membranes – each spotted in duplicate with 35 different protease antibodies                                                                                                                                                                                                                                                                                                                                                    |                       |
| ADAM8, ADAM9, ADAMTS1, ADAMTS13, Cathepsin A, Cathepsin B, Cathepsin C/DPPI, Cathepsin D, Cathepsin E, Cathepsin L, Cathepsin S, Cathepsin V, Cathepsin X/Z/P, DPPIV/CD26, Kallikrein 3/PSA, Kallikrein 5, Kallikrein 6, Kallikrein 7, Kallikrein 10, Kallikrein 11, Kallikrein 13, MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-12, MMP-13, Neprilysin/CD10, Presenilin-1, Proprotein Convertase 9, Proteinase 3, uPA/Urokinase |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                                                                     | Suggested Sample Size |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                                                                                                                   | 200–500 µL            |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                                                                              | 100–200 µg            |
| Serum                                                                                                                                                                                                                                                                                                                                                                                                                                     | 50–200 µL             |
| Tissue Lysates                                                                                                                                                                                                                                                                                                                                                                                                                            | 100–200 µg            |
| Plasma (EDTA/Heparin)                                                                                                                                                                                                                                                                                                                                                                                                                     | 50–200 µL             |
| Saliva                                                                                                                                                                                                                                                                                                                                                                                                                                    | 50–200 µL             |
| Urine                                                                                                                                                                                                                                                                                                                                                                                                                                     | 50–200 µL             |

| Human Protease Inhibitor Array Kit                                                                                                                                                                                                                                                                                                                                                        |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY023                                                                                                                                                                                                                                                                                                                                                                          | 4 Tests               |
| Contains 4 membranes – each spotted in duplicate with 32 different protease antibodies                                                                                                                                                                                                                                                                                                    |                       |
| APP, Cystatin A, Cystatin B, Cystatin C, Cystatin E/M, EMMPRIN, Fetuin B, HAI-1, HAI-2, HE4/WFDC2, Latexin, Lipocalin-1, Lipocalin-2/NGAL, RECK, Serpin A5, Serpin A8/AGT, Serpin A9/Centerin, Serpin A12, Serpin B5/Maspin, Serpin B6, Serpin B8, Serpin E1/PAI-1, Serpin F1/PEDF, Testican 1/SPOCK1, Testican 2/ SPOCK2, TFPI, TFPI-2, TIMP-1, TIMP-2, TIMP-3, TIMP-4, Trappin-2/Elafin |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                     | Suggested Sample Size |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                                                                   | 200–500 µL            |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                              | 100–200 µg            |
| Serum                                                                                                                                                                                                                                                                                                                                                                                     | 50–200 µL             |
| Tissue Lysates                                                                                                                                                                                                                                                                                                                                                                            | 100–200 µg            |
| Plasma (EDTA/Heparin)                                                                                                                                                                                                                                                                                                                                                                     | 50–100 µL             |
| Saliva                                                                                                                                                                                                                                                                                                                                                                                    | 50–100 µL             |
| Urine                                                                                                                                                                                                                                                                                                                                                                                     | 50–100 µL             |

Human

| Human Protease/Protease Inhibitor Array Kit                                                                                                                               |                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY025                                                                                                                                                          | 4 Tests               |
| Contains 4 membranes – 2 Protease arrays (see catalog # ARY021B for con-tent) and 2 Protease Inhibitor arrays (see catalog # ARY023 for content)                          |                       |
|                                                                                                                                                                           |                       |
| Human Pluripotent Stem Cell Array Kit                                                                                                                                     |                       |
| Catalog # ARY010                                                                                                                                                          | 8 Tests               |
| Contains 8 membranes – each spotted in duplicate with 15 different stem cell marker antibodies                                                                            |                       |
| E-Cadherin, α-Fetoprotein, GATA-4*, Goosecoid, HCG, HNF-3/FoxA2*, Nanog, Oct-3/4, Otx2, PDX-1/PF1*, Snail, SOX2*, SOX17, TP63/TP73L, VEGF R2/KDR * Crossreacts with mouse |                       |
| Validated Sample Type                                                                                                                                                     | Suggested Sample Size |
| Cell Lysates                                                                                                                                                              | 50–300 µg             |

| Human Soluble Receptor Array Kit, Hematopoietic Panel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4 Tests               |
| Contains 4 membranes – 2 spotted in duplicate with 48 different hematopoietic antibodies and 2 spotted in duplicate with 57 common antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |
| Hematopoietic Panel: CD5, CD6, CD30/TNFRSF8, CD40/TNFRSF5, CD43, CD48/SLAMF2, CD59, CD84/SLAMF5, CD97, CD163, CD229/SLAMF3, Chitinase 3-like 1, CRP, CRTAM, CXCL16, DNAM-1, DPPIV, IFN-γ R2, IL-2 Rα, IL-2 Rα, IL-6 R, Integrin α3/CD49c, Integrin α4/CD49d, Integrin α5/CD49e, Integrin α6/CD49f, Integrin α9, Integrin αE/CD103, Integrin αL/CD11a, Integrin αM/ CD11b, Integrin αX/CD11c, LAG-3, MMP-9, MMR, Myeloperoxidase, Resistin, L-Selectin, Siglec-5, Siglec-6, Siglec-7, Siglec-9, Siglec-10, TIM-3, TLR2, TLR4, TNF RI/TNFRSF1A, TRACP, TRANCE/TNFSF11, TREM-1<br>Common Analytes Panel: ACE, ADAM8, ADAM9, ADAM10, ALCAM, Amphiregulin, APP pan, BACE-1, BCAM, C1q R1/CD93, CD9, CD23/Fcε RII, CD31/PECAM-1, CD36/SR-B3, CD40 Ligand/TNFSF5, CD44H, CD58/LFA-3, CD90/Thy1, CD99, CD155/PVR, CEACAM-1, CX3CL1/Fractalkine, CXCL8/IL-8, EMMPRIN, Endoglin, Epiregulin, Galectin-1, Galectin-3, Galectin-3BP, HB-EGF, ICAM-2, IL-1 RII, IL-15 Rα, Integrin β1/CD29, Integrin β2/CD18, Integrin β3/ CD61, Integrin β4/CD104, Integrin β5, Integrin β6, JAM-A, Lipocalin-2/NGAL, LOX-1, MD-1, MMP-2, NCAM-1/CD56, NCAM-L1, Osteopontin, PAR1, Pref-1, RECK, Stabilin-1, TACE, Thrombospondin, TIMP-1, TIMP-2, TIMP-3, TNF RII/ TNFRSF1B |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Suggested Sample Size |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 200–500 µL            |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20–300 µg             |
| Serum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10–50 µL              |

| Human Soluble Receptor Array Kit, Non-Hematopoietic Panel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4 Tests               |
| Contains 4 membranes – 2 spotted in duplicate with 62 different non-hematopoietic antibodies and 2 spotted in duplicate with 57 common antibod-ies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |
| Non-Hematopoietic Panel: ADAM15, βIG-H3, BMPR-IB, Cadherin-4, Cadherin-11, Cadherin-13, E-Cadherin, N-Cadherin, P-Cadherin, VE-Cadherin, Cathepsin D, CD40/TNFRSF5, CEACAM-5, CHL-1, Clusterin, Coagulation Factor II/Thrombin, COMP, CRELD2, Desmoglein 2, ECM-1, EGF R, Endoglycan, EpCAM, ErbB2, ErbB3, ErbB4, ESAM, Galectin-2, HPRG, Integrin α3/CD49c, Integrin α5/ CD49e, Integrin α6/CD49f, Integrin α9, Integrin αV/CD51, Jagged 1, JAM-B, JAM-C, LRP-6, MCAM/CD146, MEPE, MUCDHL, Nectin-2, Nectin-4, Neurotrimin, Notch-1, NrCAM, Periostin, Podocalyxin, E-Selectin, Semaphorin 3A, SREC-I, SREC-II, Stanniocalcin 1, Syndecan-1, Syndecan-4, Thrombospondin-2, TIMP-4, TROP-2, VAP-1, VCAM-1, VEGF R1, VEGF R2<br>Common Analytes Panel: ACE, ADAM8, ADAM9, ADAM10, ALCAM, Amphiregulin, APP pan, BACE-1, BCAM, C1q R1/CD93, CD9, CD23/Fcε RII, CD31/PECAM-1, CD36/SR-B3, CD40 Ligand/TNFSF5, CD44H, CD58/LFA-3, CD90/Thy1, CD99, CD155/PVR, CEACAM-1, CX3CL1/Fractalkine, CXCL8/IL-8, EMMPRIN, Endoglin, Epiregulin, Galectin-1, Galectin-3, Galectin-3BP, HB-EGF, ICAM-2, IL-1 RII, IL-15 Rα, Integrin β1/CD29, Integrin β2/CD18, Integrin β3/CD61, Integrin β4/ CD104, Integrin β5, Integrin β6, JAM-A, Lipocalin-2/NGAL, LOX-1, MD-1, MMP-2, NCAM-1/CD56, NCAM-L1, Osteopontin, PAR1, Pref-1, RECK, Stabilin-1, TACE, Thrombospondin, TIMP-1, TIMP-2, TIMP-3, TNF RII/TNFRSF1B |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Suggested Sample Size |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 200–500 µL            |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100–300 µg            |
| Serum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10–50 µL              |

| Human Ubiquitin Array Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Catalog # ARY027                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4 Tests               |
| Contains 4 membranes – each spotted in duplicate with 49 different ubiquitin-related antibodies                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |
| A20/TNFAIP3, ATF4, Bcl-2, β-TrCP1/BTRC, Caspase-8, CBL, Cyclin D1/CCND1, CD44, cIAP-1/IAIP-2, cIAP-2/IAIP-1, COX-2/PTGS2, EGF R, ER-α/NR3A1, ErbB2, ErbB3, ErbB4, FASN, F-box protein 15/FBXO15, FBXW7/Cdc4, FGF R2, HGF R/c-met, HIF-1α, HSP70, HSP90AA1/HSP90a, IGF-I R, IκBα, IκBε, IKKγ/ NEMO, Insulin R, IRAK1, IRF3, IRS1, M-CSF R, MSP R/Ron, Nrf2/NFE2L2, NIK/ MAP3K14, p21CDKN1A/Cip1, p53, PDGF Rα, PDGF Rβ, RIP1, SCF R/c-Kit, Tfr, TNF R1/TNFRSF1A, TRAF-2, TRAF-3, TRAF-6, Trk A, VEGF R3/Flt-4, Ubiquitin |                       |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Suggested Sample Size |
| Cell Lysates (ligand treated cells)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 200–300 µg            |
| Cell Lysates (proteasome inhibitor treated cells)                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 25–100 µg             |

# Kits Available (continued)

## Mouse

| Mouse Adipokine Array Kit                                                                                                                                                                                                                                                                                                                                         |                       |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|
| Catalog # ARY013                                                                                                                                                                                                                                                                                                                                                  |                       | 4 Tests |
| Contains 4 membranes – each spotted in duplicate with 38 different obesity-related antibodies                                                                                                                                                                                                                                                                     |                       |         |
| Adiponectin, AgRP, Angiopoietin-like 3, CCL2/MCP-1, CCL5/RANTES, CRP, DPPIV, Endocan, Fetuin A, FGF acidic, FGF-21, HGF, ICAM-1, IGF-I, IGF-II, IGFBP-1, IGFBP-2, IGFBP-3, IGFBP-5, IGFBP-6, IL-6, IL-10, IL-11, Leptin, LIF, Lipocalin-2/NGAL, M-CSF, Oncostatin M, Pentraxin 2, Pentraxin 3, Pref-1, RAGE, RBP4, Resistin, Serpin E1/PAI-1, TIMP-1, TNF-α, VEGF |                       |         |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                             | Suggested Sample Size |         |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                                           | 500 µL                |         |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                      | 400 µg                |         |
| Serum                                                                                                                                                                                                                                                                                                                                                             | 50 µL                 |         |
| Tissue Lysates                                                                                                                                                                                                                                                                                                                                                    | 400 µg                |         |

| Mouse Angiogenesis Array Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|
| Catalog # ARY015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        | 4 Tests |
| Contains 4 membranes – each spotted in duplicate with 53 different angiogenesis-related antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |         |
| ADAMTS1*, Amphiregulin*, Angiogenin*, Angiopoietin-1*, Angiopoietin-3*, Coagulation Factor III/Tissue Factor, CXCL10/CRG-2*, CXCL16*, Cyr61*, DLL4*, DPPIV*, EGF, Endoglin, Endostatin/Collagen XVIII*, Endothelin-1*, FGF acidic*, FGF basic*, FGF-7, Fractalkine, GM-CSF, HB-EGF, HGF*, IGFBP-1*, IGFBP-2*, IGFBP-3*, IL-1α, IL-1β, IL-10, KC*, Leptin, MCP-1*, MIP-1α, MMP-3 (pro and active), MMP-8 (pro)*, MMP-9 (pro and active)*, NOV*, Osteopontin*, PD-ECGF*, PDGF-AA*, PDGF-AB/PDGF-BB*, Pentraxin-3, Platelet Factor 4*, PIGF-2*, Prolactin*, Proliferin, SDF-1, Serpin E1*, Serpin F1, Thrombospondin-2*, TIMP-1, TIMP-4*, VEGF*, VEGF-B*<br>* Crossreacts with rat |                        |         |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Suggested Sample Size  |         |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 400-750 µL (up to 1mL) |         |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 200 µg                 |         |
| Serum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 25 µL                  |         |
| Tissue Homogenates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 200 µg                 |         |

| Mouse Chemokine Array Kit                                                                                                                                                                                                                                                                                                                                 |                       |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|
| Catalog # ARY020                                                                                                                                                                                                                                                                                                                                          |                       | 4 Tests |
| Contains 4 membranes – each spotted in duplicate with 25 different chemokine antibodies                                                                                                                                                                                                                                                                   |                       |         |
| CCL11/Eotaxin, CCL12/MCP-5, CCL2/JE/MCP-1, CCL21/6Ckine, CCL22/MDC, CCL27/CTACK, CCL28, CCL3/CCL4 (MIP-1α /MIP-1β), CCL5/RANTES, CCL6/C10, CCL8/MCP-2, CCL9/10/MIP-1 γ, Chemerin, Complement Component C5/C5a, CX3CL1/Fractalkine, CXCL1/KC, CXCL2/MIP-2, CXCL9/MIG, CXCL10/IP-10/CRG-2, CXCL11/I-TAC, CXCL12/SDF-1, CXCL13/BLC/BCA-1, CXCL16, IL-16, LIX |                       |         |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                     | Suggested Sample Size |         |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                                   | 200–500 µL            |         |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                              | 100–200 µg            |         |
| Serum                                                                                                                                                                                                                                                                                                                                                     | 50–200 µL             |         |
| Tissue Lysates                                                                                                                                                                                                                                                                                                                                            | 100–200 µg            |         |

| Mouse Apoptosis Array Kit                                                                                                                                                                                                              |                       |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|
| Catalog # ARY031                                                                                                                                                                                                                       |                       | 8 Tests |
| Contains 8 membranes – each spotted in duplicate with 21 different antibodies                                                                                                                                                          |                       |         |
| Bad, Fas/TNFRSF6/CD95, MCL-1, Bcl-2, HIF-α, p27/Kip1, Bcl-x, HO-1/HMOX1/HSP32, p53, Cleaved Caspase-3, HO-2/HMOX2, SMAC/Diablo, Catalase, HSP27, TNF R1/TNFRSF1A, Claspin, HSP60, TRAIL R2/TNFRSF10B, Cytochrome c, HSP70/HSPA1A, XIAP |                       |         |
| Validated Sample Type                                                                                                                                                                                                                  | Suggested Sample Size |         |
| Cell Lysates                                                                                                                                                                                                                           | 200–400 µg            |         |

| Mouse XL Cytokine Array Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|
| Catalog # ARY028                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       | 4 Tests |
| Contains 4 membranes – each spotted in duplicate with 111 different cytokine antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |         |
| Adiponectin/Acrp30, Amphiregulin, Angiopoietin-1, Angiopoietin-2, Angiopoietin-like 3, BAFF/BLyS/TNFSF13B, C1q R1/CD93, CCL2/JE/MCP-1, CCL3/CCL4<br>MIP-1α/β, CCL5/RANTES, CCL6/C10, CCL11/Eotaxin, CCL12/MCP-5, CCL17/TARC, CCL19/MIP-3β, CCL20/MIP-3α, CCL21/6Ckine, CCL22/MDC, CD14, CD40/TNFRSF5, CD160, Chemerin, Chitinase 3-like 1, Coagulation Factor III/, Tissue Factor, Complement Component C5/C5a, Complement Factor D, C-Reactive Protein/CRP, CX3CL1/Fractalkine, CXCL1/KC, CXCL2/MIP-2, CXCL9/MIG, CXCL10/IP-10, CXCL11/I-TAC, CXCL13/BLC/BCA-1, CXCL16, Cystatin C, Dkk-1, DPPIV/CD26, EGF, Endoglin/CD105, Endostatin, Fetuin A/AHSG, FGF acidic, FGF-21, Flt-3 Ligand, Gas6, G-CSF, GDF-15, GM-CSF, HGF, ICAM-1/CD54, IFN-γ, IGFBP-1, IGFBP-2, IGFBP-3, IGFBP-5, IGFBP-6, IL-1α/IL-1F1, IL-1β/IL-1F2, IL-1ra/IL-1F3, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-10, IL-11, IL-12p40, IL-13, IL-15, IL-17A, IL-22, IL-23, IL-27, IL-28, IL-33, LDL R, Leptin, LIF, Lipocalin-2/NGAL, LIX, M-CSF, MMP-2, MMP-3, MMP-9, Myeloperoxidase, Osteopontin (OPN), Osteoprotegrin/TNFRSF11B, PD-ECGF/Thymidine phosphorylase, PDGF-BB, Pentraxin 2/SAP, Pentraxin 3/TSG-14, Periostin/OSF-2, Pref-1/DLK-1/FA1, Proliferin, Proprotein Convertase 9/PCSK9, RAGE, RBP4, Reg3G, Resistin, E-Selectin/CD62E, P-Selectin/CD62P, Serpin E1/PAI-1, Serpin F1/PEDF, Thrombopoietin, TIM-1/KIM-1/HAVCR, TNF-α, VCAM-1/CD106, VEGF, WISP-1 |                       |         |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Suggested Sample Size |         |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 200–500 µL            |         |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100–200 µg            |         |
| Serum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 50–200 µL             |         |
| Tissue Lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 100–200 µg            |         |
| Urine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25–50 µL              |         |

| Mouse Cytokine Array Kit, Panel A                                                                                                                                                                                                                                                                                                                                |                       |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|
| Catalog # ARY006                                                                                                                                                                                                                                                                                                                                                 |                       | 4 Tests |
| Contains 4 membranes – each spotted in duplicate with 40 different cytokine antibodies                                                                                                                                                                                                                                                                           |                       |         |
| BLC, C5a, CCL1/I-309, CCL2/MCP-1, CCL3/MIP-1α, CCL4/MIP-1β, CCL5/RANTES, CCL11/Eotaxin, CCL12/MCP-5, CCL17/TARC, CXCL1/KC, CXCL9/MIG, CXCL10/IP-10, CXCL11/I-TAC, CXCL12/SDF-1, G-CSF, GM-CSF, ICAM-1, IFN-γ, IL-1α, IL-1β, IL-1ra, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-10, IL-12 p70, IL-13, IL-16, IL-17, IL-23, IL-27, M-CSF, MIP-2, TIMP-1, TNF-α, TREM-1 |                       |         |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                            | Suggested Sample Size |         |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                                          | 50–100 µL             |         |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                     | 100 µg                |         |
| Serum                                                                                                                                                                                                                                                                                                                                                            | 250 µL                |         |
| Tissue Lysates                                                                                                                                                                                                                                                                                                                                                   | 200 µg                |         |
| Plasma (EDTA/Heparin)                                                                                                                                                                                                                                                                                                                                            | 100 µL                |         |

| Mouse Phospho-RTK Array Kit                                                                                                                                                                                                                                                                      |                       |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|
| Catalog # ARY014                                                                                                                                                                                                                                                                                 |                       | 4 Tests |
| Contains 4 membranes – each spotted in duplicate with 39 different anti-RTK antibodies                                                                                                                                                                                                           |                       |         |
| Axl, c-Ret, Dtk, EphA1, EphA2, EphA3, EphA6, EphA7, EphA8, EphB1, EphB2, EphB4, EphB6, EGF R, ErbB2, ErbB3, ErbB4, FGF R2 (IIc), FGF R3, FGF R4, Flt-3, HGF R, Insulin R, IGF-I R, M-CSF R, Mer, MSP R, MuSK, PDGF Rα, PDGF Rβ, SCF R, Tie-1, Tie-2, TrkA, TrkB, TrkC, VEGF R1, VEGF R2, VEGF R3 |                       |         |
| Validated Sample Type                                                                                                                                                                                                                                                                            | Suggested Sample Size |         |
| Cell Lysates                                                                                                                                                                                                                                                                                     | 50–300 µg             |         |

○ Array for intracellular factors

## Rat

| Rat Adipokine Array Kit                                                                                                                                                                                                                                                      |                       |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|
| Catalog # ARY016                                                                                                                                                                                                                                                             |                       | 4 Tests |
| Contains 4 membranes – each spotted in duplicate with 30 different obesity-related antibodies                                                                                                                                                                                |                       |         |
| Angiopoietin-like 3, CCL2/MCP-1, CCL5/RANTES, DPPIV, Endocan, FGF-21, HGF, ICAM-1, IGF-I, IGF-II, IGFBP-1, IGFBP-2, IGFBP-3, IGFBP-5, IGFBP-6, IL-1β, IL-6, IL-10, IL-11, Leptin, LIF, Lipocalin-2/NGAL, M-CSF, Pref-1, RAGE, Resistin, Serpin E1/PAI-1, TIMP-1, TNF-α, VEGF |                       |         |
| Validated Sample Type                                                                                                                                                                                                                                                        | Suggested Sample Size |         |
| Cell Culture Supernates                                                                                                                                                                                                                                                      | 200–500 µL            |         |
| Cell Lysates                                                                                                                                                                                                                                                                 | 100–500 µg            |         |
| Serum                                                                                                                                                                                                                                                                        | 50–200 µL             |         |
| Tissue Lysates                                                                                                                                                                                                                                                               | 100–500 µg            |         |

| Rat Cytokine Array Kit, Panel A                                                                                                                                                                                                                                                                  |                       |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|
| Catalog # ARY008                                                                                                                                                                                                                                                                                 |                       | 4 Tests |
| Contains 4 membranes – each spotted in duplicate with 29 different cytokine antibodies                                                                                                                                                                                                           |                       |         |
| CCL3/MIP-1α, CCL5/RANTES, CCL20/MIP-3α, CNTF, CX3CL1/Fractalkine, CXCL1/CINC-1, CXCL2/CINC-3, CXCL3/CINC-2α/β, CXCL7/Thymus Chemokine-1, CXCL9/MIG, CXCL10/IP-10, GM-CSF, ICAM-1, IFN-γ, IL-1α, IL-1β, IL-1ra, IL-2, IL-3, IL-4, IL-6, IL-10, IL-13, IL-17, LIX, L-Selectin, TIMP-1, TNF-α, VEGF |                       |         |
| Validated Sample Type                                                                                                                                                                                                                                                                            | Suggested Sample Size |         |
| Cell Culture Supernates                                                                                                                                                                                                                                                                          | 500 µL                |         |
| Cell Lysates                                                                                                                                                                                                                                                                                     | 200 µg                |         |
| Plasma (EDTA/Hetarin)                                                                                                                                                                                                                                                                            | 150 µL                |         |
| Tissue Lysates                                                                                                                                                                                                                                                                                   | 400 µg                |         |

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| Rat XL Cytokine Array Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|
| Catalog # ARY030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       | 4 Tests |
| Contains 4 membranes – each spotted in duplicate with 79 different antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |         |
| Adiponectin, CCL2/JE/MCP-1, CCL3/CCL4/MIP-1α/β, CCL5/RANTES, CL11/Eotaxin, CCL17/TARC, CCL20/MIP-3α, CCL21/6Ckine, CCL22/MDC, Clusterin, CNTF, CX3CL1/Fractalkine, CXCL2/GROβ/MIP-2/CINC-3, CXCL7/Thymus Chemokine-1, Cyr61/CCN1, Cystatin C, DPPIV/CD26, EGF, EG-VEGF, Endostatin, Fetuin A, FGF acidic, FGF-7, FGF-21, Fibulin 3, Flt-3 Ligand, Galectin-1, Galectin-3, G-CSF, GDF-15, GM-CSF, Hepassocin, HGF, ICAM-1/CD54, IFN-γ, IGF-I, IGFBP-2, IGFBP-3, IGFBP-5, IGFBP-6, IL-1α/IL-1F1, IL-1β/IL-1F2, IL-1ra/IL-1F3, IL-2, IL-3, IL-4, IL-6, IL-13, IL-17A, IL-22, Jagged 1, LIF, Lipocalin-2/NGAL, LIX, MAG/Siglec-4a, MMP-2, MMP-3, MMP-9, Neprilysin/CD10, NOV/CCN3, NT-3, NT-4, Osteopontin (OPN), Osteoprotegerin/TNFRSF11B, PDGF-BB, Pref-1/DLK1/FA1, Prolactin, RAGE, RBP4, Resistin, RGM-A, SCF, Serpin E1/PAI-1, TIM-1/KIM-1/HAVCR, TNF-α, TWEAK/TNFSF12, VCAM-1/CD106, VEGF, WISP-1/CCN |                       |         |
| Validated Sample Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Suggested Sample Size |         |
| Cell Culture Supernates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 200–500 µL            |         |
| Cell Lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 100–200 µg            |         |
| Serum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 50–20 µL              |         |
| Tissue Lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100–500 µg            |         |
| Urine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 25–50 µg              |         |



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