

Human AKI Array (20 targets)

Catalog Number: AKAA016

Size: 2, 4, or 8

Price: [Online Inquiry](#)

Product Information	
Product Name	Human AKI Array (20 targets)
Applications	Multiplexed Protein Detection; Detection of Relative Protein Expression; Detecting Patterns of Cytokine Expression; Biomarker/ Key Factor Screening; Identifying Key Factors; Confirming a Biological Process; Detecting Nephrotoxicity
Analytes	TIM-1 (KIM-1) Albumin Osteopontin (SPP1) TFF3 (Trefoil Factor 3) Beta-2 Microglobulin Clusterin CXCL16 Osteoactivin (GPNMB) FABP1 MCP-1 (CCL2) TNF RI (TNFRSF1A) Calbindin IP-10 (CXCL10) Cystatin C HGF MIF Lipocalin-2 (NGAL) TIMP-1 VCAM-1 (CD106) VEGF-A
ASSAY SIZE	2 Arrays/4 Arrays/8 Arrays/
Product Features	Easy to useNo specialized equipment neededCompatible with nearly any liquid sampleProven technologyHighly sensitive (pg/ml)Sandwich ELISA specificityHigher density than ELISA, Western blot or bead-based multiplex
Kit Components	Human Acute Kidney Injury (AKI) Antibody Array C1 MembranesBlocking BufferWash Buffer 1Wash Buffer 2Biotinylated Detection Antibody CocktailStreptavidin-Conjugated HRPDetection Buffer CDetection Buffer DLysis Buffer8-Well Incubation TrayPlastic SheetsArray TemplatesOther Materials RequiredPipettors, pipet tips and other common lab consumablesOrbital shaker or oscillating rockerTissue Paper, blotting paper or chromatography paperAdhesive tape or Saran WrapDistilled or de-ionized waterA chemiluminescent blot documentation system , X-ray Film and a suitable film processor, or another chemiluminescent detection system.
Protocol Outline	1.Block membranes2.Incubate with Sample3.Incubate with Biotinylated Detection Antibody Cocktail4.Incubate with HRP-Conjugated Streptavidin5.Incubate with Detection Buffers6.Image with chemiluminescent imaging system7.Perform densitometry and analysis
Species	Human
Number of Targets Detected	20
Gene Symbols	ALB, B2M, CALB1, CCL2, CLU, CST3, CXCL10, CXCL16, FABP1, GPNMB HAVCR1, HGF, LCN2, MIF, SPP1, TFF3, TIMP1, TNFRSF1A, VCAM1, VEGFA
Compatible Sample Types	Cell Culture Supernatants, Cell Lysates, Plasma, Serum, Tissue Lysates
Design Principle	Sandwich-based
Method of Detection	Chemiluminescence

Product Information

Quantitative/Semi-Quantitative	Semi-Quantitative
Storage	For best results, store the entire kit frozen at -20°C upon arrival. Stored frozen, the kit will be stable for at least 6 months which is the duration of the product warranty period. Once thawed, store array membranes and 1X Blocking Buffer at -20°C and all other reagents undiluted at 4°C for no more than 3 months.