

Human Cytokine Array (54 targets)

Catalog Number: AKAA040

Size: 2, 4, or 8

Price: [Online Inquiry](#)

Product Information	
Product Name	Human Cytokine Array (54 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
Analytes	Activin A ALCAM (CD166) CD80 (B7-1) BMP-5 BMP-7 Cardiotrophin-1 (CT-1) CD14 CXCL16 DR6 (TNFRSF21) Endoglin (CD105) ErbB3 E-Selectin Fas Ligand (TNFSF6) ICAM-2 (CD102) IGF-2 IL-1 R2 IL-10 R beta IL-13 R alpha 2 IL-18 BP alpha IL-18 R beta (AcPL) MMP-3 IL-2 R beta (CD122) IL-2 R gamma (Common gamma Chain) IL-21 R IL-5 R alpha IL-9 IP-10 (CXCL10) LAP/TGF beta 1 Leptin R LIF L-Selectin (CD62L) M-CSF R MMP-1 MMP-13 MMP-9 MIPF-1 (CCL23) NGFR (TNFRSF16) PDGF-AA PDGF-AB PDGF R alpha PDGF R beta PECAM-1 (CD31) Prolactin SCF R (CD117/c-kit)
ASSAY SIZE	2 Arrays/4 Arrays/8 Arrays/
Product Features	Easy to use No specialized equipment needed Compatible with nearly any liquid sample Proven technology Highly sensitive (pg/ml) Sandwich ELISA specificity Higher density than ELISA, Western blot or bead-based multiplex
Kit Components	Human Cytokine Antibody Array C8 Membranes Blocking Buffer Wash Buffer 1 Wash Buffer 2 Biotinylated Detection Antibody Cocktail Streptavidin-Conjugated HRP Detection Buffer C Detection Buffer D Lysis Buffer 8-Well Incubation Tray Plastic Sheets Array Templates Other Materials Required Pipettors, pipet tips and other common lab consumables Orbital shaker or oscillating rocker Tissue Paper, blotting paper or chromatography paper Adhesive tape or Saran Wrap Distilled or de-ionized water A chemiluminescent blot documentation system , X-ray Film and a suitable film processor, or another chemiluminescent detection system.
Protocol Outline	1.Block membranes 2.Incubate with Sample 3.Incubate with Biotinylated Detection Antibody Cocktail 4.Incubate with HRP-Conjugated Streptavidin 5.Incubate with Detection Buffers 6.Image with chemiluminescent imaging system 7.Perform densitometry and analysis
Species	Human
Number of Targets Detected	54
Gene Symbols	ALCAM, BMP5, BMP7, CCL23, CD14, CD80, CDH5, CSF1R, CTF1, CXCL10 CXCL12, CXCL16, ENG, ERBB3, FASLG, FLT4, ICAM2, IGF2, IL10RB, IL13RA2, IL18BP, IL18RAP, IL1R2, IL21R, IL2RB, IL2RG, IL5RA, IL9, INHBA, KDR, KIT, LEPR, LIF, MMP1, MMP13, MMP3, MMP9, NGFR,

Product Information	
	PDGFA, PDGFB, PDGFRA, PDGFRB, PECAM1, PRL, SELE, SELL, SIGLEC5, TEK, TGFA, TGFB1, TGFB2, TIE1, TIMP4, TNFRSF21
Compatible Sample Types	Cell Culture Supernatants, Cell Lysates, Plasma, Serum, Tissue Lysates
Design Principle	Sandwich-based
Method of Detection	Chemiluminescence
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.