Human Stem Cell Array (15 targets)

Catalog Number: AKAA065

Size: 2, 4, or 8

Price: Online Inquiry

Product Information

Product Name	Human Stem Cell Array (15 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	Alpha-fetoprotein BMPR-IA (ALK-3) ALK-6 (BMPR-IB) Brachyury (Protein T) CD38 E-Cadherin GATA4 hCG beta Nanog Nestin OCT-4 PDX-1 (IPF1) SOX17 SOX2 VEGFR2
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 Stem Cell Array C1 Membranes(s)Blocking BufferWash Buffer 1Wash Buffer 2Biotinylated Detection Antibody CocktailStreptavidin-Conjugated FluorDetection 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	15
Gene Symbols	AFP, BMPR1A, BMPR1B, CD38, CDH1, CGB, GATA4, KDR, NANOG, NES|PDX1, POU5F1, SOX17, SOX2, T
Compatible Sample Types	Cell Culture Supernatants, Cell Lysates, Plasma, Serum, Tissue Lysates
Design Principle	Sandwich-based
Method of Detection	Chemiluminescence
Quantitative/Semi-	Semi-Quantitative

Product Information	
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.