Human Phosphorylation Pathway Profiling Array (55 targets)

Catalog Number: AKAA003

Size: 2, 4, or 8

Price: Online Inquiry

Product Information

Product Name	Human Phosphorylation Pathway Profiling Array (55 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	4E-BP1 (P-Thr36) AKT (P-Ser473) AMPKa (P-Thr172) ATF2 (P-Thr69/71) ATM (P-Ser1981) BAD (P-Ser112) C-Fos (P-Thr232) c-Jun (P-Ser73) CREB (P-Ser133) EGFR (P-Ser1070) eIF-2a (P-Ser51) ERK1/2 (P-Thr202/P-Tyr204/P-Tyr185/P-Tyr187) GSK-3 alpha (P-Ser21) GSK-3 beta (P-Ser9) HDAC2 (P-Ser394) HDAC4 (P-Ser632) HSP27 (P-Ser82) IKBa (P-Ser32) JAK1 (P-Tyr1022) JAK2 (P-Tyr1007/1008) JNK (P-Thr183) MEK (P-Ser217/221) MKK3 (P-Ser189) MKK6 (P-Ser207) (MEK6) MSK1 (P-Ser376) MSK2 (P-Ser360) mTOR (P-Ser2448) NF-kB (P-Ser536) p27 (P-Thr198) p38 (P-Thr180/Tyr182) P53 (P-Ser15) P70S6K (P-Thr421/Ser424) PDK1 (P-Ser241) PRAS40 (P-Thr246) PTEN (P-Ser380) Raf-1 (P-Ser301) RPS6 (P-Ser235/236) RSK1 (P-Ser380) RSK2 (P-Ser386) SHP-1 (P-Ser591) SHP2 (P-Tyr542) SMAD1 (P-Ser463/465) SMAD2 (P-Ser245/250/255) SMAD4 (P-Thr277)
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 Phosphorylation Pathway Profiling Array C55 MembranesBlocking BufferDetection Antibody Cocktail500X HRP-Anti-Rabbit IgG Concentrate20X Wash Buffer I Concentrate20X Wash Buffer II Concentrate2X Cell Lysis Buffer ConcentrateDetection Buffer CDetection Buffer D8-Well Incubation Tray w/ LidProtease Inhibitor Cocktail100x Phosphatase Inhibitor Cocktail IPhosphatase Inhibitor Cocktail IIPlastic SheetsArray Map TemplateOther 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 Detection Antibody Cocktail4.Incubate with HRP-Conjugated anti-IgG5.Incubate with Detection Buffers6.Image with chemiluminescent imaging system7.Perform densitometry and analysis
Species	Human

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Product Information	
Number of Targets Detected	55
Gene Symbols	AKT1, AKT1S1, AMPK1, AND, ATF2, ATM, BAD, CDKN1B, CREB1, EGFR|EIF2S1, EIF4EBP1, FOS, GSK3A, GSK3B, HDAC2, HDAC4, HSPB1, JAK1, JAK2, JUN, MAP2K1, MAP2K3, MAP2K6, MAP3K7, MAPK14, MAPK8, MTOR, NFKBIA, PDPK1, PTEN, PTPN11, PTPN6, RAF1, RELA, RPS6, RPS6KA1, RPS6KA3, RPS6KA4, RPS6KA5, RPS6KB1, SMAD1, SMAD2, SMAD4, SMAD5, SRC, STAT1, STAT2, STAT3, STAT5A, STAT6, TBK1, TP53, TYK2, ZAP70
Compatible Sample Types	Cell Culture Supernatants, Cell Lysates, Plasma, Serum, Tissue Lysates
Design Principle	Sandwich-based
Method of Detection	Chemiluminescence
Pathway	Akt Signaling / JAK/STAT Signaling / MAPK Signaling / NFkB Signaling / TGF-beta Signaling
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.

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