Human/Mouse AKT Pathway Phosphorylation Array (18 targets)

Catalog Number: AKAA071

Size: 2, 4, or 8

Price: Online Inquiry

Product Information

Product Name	Human/Mouse AKT Pathway Phosphorylation Array (18 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	Akt (P-Ser473) (PKB (P-Ser473)) AMPKa (P-Thr172) BAD (P-Ser112) 4E-BP1 (P-Thr36) ERK1 (P-T202/Y204)/ERK2 (P-Y185/Y187) GSK3a (P-Ser21) GSK3b (P-Ser9) mTOR (P-Ser2448) p27 (P-Thr198) P53 (P-Ser15) P70S6K (P-Thr421/Ser424) PDK1 (P-Ser241) PRAS40 (P-Thr246) PTEN (P-Ser380) Raf-1 (Ser301) RPS6 (P-Ser235/Ser236) RSK1 (P-Ser380) RSK2 (P-Ser386)
ASSAY SIZE	2 Arrays/4 Arrays/8 Arrays/
Product Features	Easy to useNo specialized equipment neededCompatible with nearly any liquid sampleProven technologyHighly sensitiveSandwich ELISA specificityHigher density than ELISA, Western blot or bead-based multiplex
Kit Components	Human and Mouse AKT Pathway Phosphorylation Antibody Array C1 MembranesBlocking BufferDetection Antibody Cocktail1,000X HRP-Anti-Rabbit IgG Concentrate20X Wash Buffer I Concentrate20X Wash Buffer II Concentate2X Cell Lysis Buffer ConcentrateDetection Buffer CDetection Buffer D8-Well Incubation TrayProtease 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 / Mouse
Number of Targets Detected	18
Gene Symbols	AKT1, AKT1S1, BAD, CDKN1B, EIF4EBP1, GSK3A, GSK3B, MAPK1, MAPK3, MTOR|PDK1, PRKAA1, PTEN, RAF1, RPS6, RPS6KA1, RPS6KA3, RPS6KB1, TP53
Compatible Sample Types	Cell Culture Supernatants, Cell Lysates, Plasma, Serum, Tissue Lysates

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Product Information	
Design Principle	Sandwich-based
Method of Detection	Chemiluminescence
Pathway	Akt Signaling / AMPK Signaling / HER/ErbB Signaling / HIF-1 alpha Signaling / IGF Signaling / JAK/STAT Signaling / MAPK Signaling / mTOR Signaling / PI3K-AKT Signaling / TGF-beta Signaling / Wnt/beta-Catenin 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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