AB-PK960

p38δ-pT180+pY182 Antibody

Phosphosite-specific rabbit polyclonal antibody for p38δ MAPK (MAPK13). This phosphothreonine-site antibody also weakly cross-reacts with phosphoserine, phosphothreonine, threonine and glutamic acid substitutions in the phosphosite.

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Target Protein

Protein Name Long:	Mitogen-activated protein-serine kinase p38 delta; Mitogen-activated protein kinase 13
Protein Alias:	MAP kinase p38 delta; MAPK13; Mitogen-activated protein kinase p38 delta; MK13; P38 MAPK-delta; p38delta; PRKM13; Stress-activated protein kinase-4; SAPK4; p38d MAPK; ENSG00000156711
UniProt ID:	O15264
Protein Molecular Mass:	42,090 Da (365 AA; O15264); 28,779 Da (257 AA; O15264-2)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human p38d
Antibody Immunogen Sequence:	DAEM(pT)G(pY)VVT(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues D176 to T185. T180 and Y182 phosphorylation is stimulatory for phosphotransferase activity. These phosphosites are located in the kinase activation loop between catalytic subdomains VII and VIII. These are two of the major *in vivo* phosphorylation sites in p38a (≥382 and >986 reports, respectively, from high throughput mass spectrometry studies recorded in PhosphoSitePlus). p38d MAPK is known to be phosphorylated *in vitro* at T180 by MKK3 (MAP2K3, MEK3), MKK4 (MAP2K4), MKK6 (MAP2K6, MEK6), and at Y182 by MKK3 (MAP2K3, MEK3), MKK4 (MAP2K4), and MKK6 (MAP2K6, MEK6).
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipep peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.
Amount:	25 µg
Antibody Concentration:	0.2 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

Storage Stability:	>2 years

Applications

Product Use:	Western blotting | Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human | Rhesus Macaque | Mouse | Platypus | Frog | Zebra fish | Fruit fly | Nematode worm
Antibody Positive Control:	The observed molecular mass of the processed target protein on SDS-PAGE gels is reported to be around 37-45 kDa.

This product is for *in vitro* research use only and is not intended for use in humans or animals.

For more information on our products please visit https://kinexus-ca.myshopify.com/ or contact us at 1-866-546-3987