

AB-PK743

p38d-pY182 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase p38d MAPK (MAPK13)



KINEXUS

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Target Protein

Name Long:	Mitogen-activated protein-serine kinase p38 delta; Mitogen-activated protein kinase 13
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
Sequence Predicted Mass (KDa):	42.090 (365 AA; O15264); 28.779 (257 AA; O15264-2)
Observed SDS-PAGE Mass (KDa):	37-45

Immunogen

Antibody Immunogen Source:	Human p38d MAPK (MAPK13) sequence peptide Cat. No.: PE-04AEJ99
Antibody Immunogen Sequence:	MTG(pY)VVT(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues M179 to T185; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-182

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipепptide 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 each animal 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. This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	0.75 mg/ml
Lot Number:	141003
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
Storage Conditions and Stability:	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.

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Applications

Product Use:	Western blotting Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other vertebrates; Phosphosite is highly conserved in diverse species
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots. Strong immunoreactivity with recombinant human p38d on protein dot blots.
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	Strong immunoreactivity on protein dot blots with with recombinant humanp38b, but not p38a or p38g. No significant cross-reactive proteins detected in Jurkat cells.

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 www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)