

AB-PK741

p38b-pT180+pY182 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase p38b MAPK (MAPK11)



KINEXUS

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Target Protein

Name Long:	Mitogen-activated protein-serine kinase p38 beta; Mitogen-activated protein kinase 11
Alias:	MAPK11; MK11; P38 MAPK-beta; P38-2; P38b; PRKM11; SAPK2; Stress-activated protein kinase-2; p28b MARPK; p38Beta; CCDS14090.1; Q15759; ENSG00000185386
UniProt ID:	Q15759
Sequence Predicted Mass (KDa):	41.357 (364 AA; Q15759); 23.603 (213 AA; Q15759-3)
Observed SDS-PAGE Mass (KDa):	40-48

Immunogen

Antibody Immunogen Source:	Human p38b MAPK (MAPK11) sequence peptide Cat. No.: PE-04ADT80
Antibody Immunogen Sequence:	EEM(pT)G(pY)(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues E177 to Y182; In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Thr-180+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:	0.5 / 0.32 mg/ml
Lot Number:	141003 / 160301
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:	Medium immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	No significant cross-reactivities detected in EGFR-treated A431 cells, except for weak target protein and 4 weak cross-reactive proteins; Weak target detection and 4 weak cross-reactive proteins in phenylarsine oxide (PAO)+vanadate-treated HeLa. cells. Clean, but strong background >75 KDa in insulin-treated MCF7 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)