

AB-PK714

MKK3-pY230 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human dual specificity protein kinase MKK3 (MAP2K3, MEK3)



KINEXUS

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Target Protein

Name Long:	MAPK/ERK protein-serine kinase 3 beta isoform (MKK3 beta); Dual specificity mitogen-activated protein kinase kinase 3
Alias:	MAP kinase kinase 3; MAPK,ERK kinase 3; MAPK/ERK kinase 3; MAPKK 3; MAP2K3; MP2K3; PRKMK3; P46734; ENSG00000034152
UniProt ID:	P46734
Sequence Predicted Mass (KDa):	39.940 (352 AA; P46734-3); 39.318 (347 AA; P46734); 36.173 (318 AA; P46734-2)
Observed SDS-PAGE Mass (KDa):	37-40

Immunogen

Antibody Immunogen Source:	Human MKK3 (MAP2K3, MEK3) sequence peptide Cat. No.: PE-04ABT80
Antibody Immunogen Sequence:	KP(pY)MAP(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues K228 to P233; 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:	Tyr-230

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:	1 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 mammals
Antibody Positive Controls:	Strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	No immunoreactivity with recombinant human MEK1, MKK4 or MKK6. No significant cross-reactive proteins detected in HepG2, Jurkat and 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)