

AB-PK715

MKK4-pS257 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human dual specificity protein kinase MKK4 (MAP2K4, MEK4)



KINEXUS

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Target Protein

Name Long:	MAPK/ERK protein-serine kinase 4 (MKK4); Dual specificity mitogen-activated protein kinase kinase 4
Alias:	c-Jun N- terminal kinase kinase 1; C-JUN N-terminal kinase kinase 1; JNK activating kinase 1; JNK kinase 1; JNKK1; Kinase SEK1; MAP2K4; SEK1; SERK1; SAPKK1; SAPKK-1; SKK1; CCDS11162.1; ENSG00000065559
UniProt ID:	P45985
Sequence Predicted Mass (KDa):	45.584 (410 AA; P45985-2); 44.288 (399 AA; P45985)
Observed SDS-PAGE Mass (KDa):	42-46

Immunogen

Antibody Immunogen Source:	Human MKK4 (MAP2K4, MEK4) sequence peptide Cat. No.: PE-04ANU99
Antibody Immunogen Sequence:	LVD(pS)IAK(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues L254 to K260; 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:	Ser-257

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 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 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:	42370 mg/ml
Lot Number:	150305 / 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 mammals
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots. Very strong immunoreactivity with recombinant human MKK4 on protein dot blots.
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	No cross-immunoreactivity on protein dot blots with recombinant human MEK1 or MKK6.

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)