

AB-NK099-2

MEK1-CT Antibody

Pan-specific polyclonal antibody for monitoring the expression of human dual specificity protein kinase MEK1 (MKK1, MAP2K1)



KINEXUS

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Target Protein

Name Long:	MAPK/ERK protein-serine kinase 1 (MKK1); Dual specificity mitogen-activated protein kinase kinase 1
Alias:	ERK activator kinase 1; Kinase MEK1; MAP kinase kinase 1; MAP2K1; MAPK,ERK kinase 1; MAPK/ERK kinase 1; MAPKK 1; MAPKK1; MKK1; PRKMK1; CCDS10216.1; Q02750; ENSG00000169032
UniProt ID:	Q02750
Sequence Predicted Mass (kDa):	43.439 (393 AA; Q02750); 40.764 (367 AA; Q02750-2)
Observed SDS-PAGE Mass (kDa):	44-47

Immunogen

Antibody Immunogen Source:	Human MEK1 (MKK1, MAP2K1) sequence peptide Cat. No.: PE-01AQL90
Antibody Immunogen Sequence:	HSFIKQSELEEVDFAFWLC
Location in Target:	Corresponds to amino acid residues H358 to L375; C-terminus
Peptide Type:	For pan-specific recognition of target expression levels.
Target Phosphosite:	Not phosphorylated

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
Production Method:	The immunizing peptide was produced on an A.B.I. automated peptide synthesizer. The peptide was cleaved from the synthesis resin with HF and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by amino acid 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. 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.
Antibody Amount:	25 µg
Antibody Concentration:	0.5 mg/ml
Lot Number:	10320
Storage Buffer:	100 mM Tris-glycine, pH 7.0
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, but either 0.1% sodium azide or 0.05% Thimerosal should be added. 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 as well as frog
Antibody Positive Controls:	Strong immunoreactivity on Western blots with recombinant mouse MEK1 expressed in bacteria.
Detection by Immunoblotting in Cell/Tissue Lysates:	With sea star oocyte extracts, it strongly immunoreacted with an appropriately sized 45 KDa protein that was also detected with STE7-VIII antibody, which also recognizes MEK1.

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)