

AB-NK056-4

ERK2-3 Antibody

Pan-specific polyclonal antibody for monitoring the expression of human protein-serine/threonine kinase ERK2 (MAPK1)



KINEXUS

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Target Protein

Name Long:	Extracellular regulated protein-serine kinase 2 (p42 MAP kinase)
Alias:	ERK; ERK-2; ERT1; Extracellular signal regulated kinase 2; Kinase ERK2; MAP kinase 2; MAP kinase isoform p42; MAPK; MAPK 2; PRKM2; p41mapk; CCDS13795.1; ENSG00000100030
UniProt ID:	P28482
Sequence Predicted Mass (KDa):	41.390 (360 AA; P28482); 36.432 (316 AA; P28482-2)
Observed SDS-PAGE Mass (KDa):	40-44

Immunogen

Antibody Immunogen Source:	Human ERK2 (MAPK1) sequence peptide Cat. No.: PE-01AXG95
Antibody Immunogen Sequence:	CSDEPIAEAPFKFDME
Location in Target:	Corresponds to amino acid residues S320 to E334; Post-kinase last alpha-chain
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 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.
Antibody Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Number:	140724
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
Detection by Immunoblotting in Cell/Tissue Lysates:	Strong immunoreactivity of a target-sized protein by Western blotting in human lung.
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	Weak immunoreactivity on protein dot blots with recombinant human ERK1 and ERK5. Medium cross-reactivity with a ~48 KDa protein in human lung.

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)