

AB-NK206-4

ERK5-2 Antibody

Pan-specific polyclonal antibody for monitoring the expression of human protein-serine/threonine kinase ERK5 (MAPK7)



KINEXUS

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Target Protein

Name Long:	Extracellular regulated protein-serine kinase 5 (Big MAP kinase 1 (BMK1))
Alias:	BMK; BMK1; BMK1 kinase; ERK4; ERK-5; Extracellular-signal-regulated kinase 5; Kinase ERK5; MAPK7; PRKM7; ENSG00000166484
UniProt ID:	Q13164
Sequence Predicted Mass (KDa):	88.386 (816 AA; Q13164); 73.218 (677 AA; Q13164-2); 59.328 (533 AA; Q13164-3); 50.152 (451 AA; Q13164-4)
Observed SDS-PAGE Mass (KDa):	88-115

Immunogen

Antibody Immunogen Source:	Human ERK5 (MAPK7) sequence peptide Cat. No.: PE-01AXI95
Antibody Immunogen Sequence:	CTRERIKEAIVAEIED
Location in Target:	Corresponds to amino acid residues T373 to D387; 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 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.
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:	1 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other mammals
Antibody Positive Controls:	Strong immunoreactivity with recombinant human ERK5 on protein dot blots.
Overall Antibody Specificity:	Medium selectivity
Antibody Cross Reactivities:	No immunoreactivity on protein dot blots with recombinant human ERK1 and ERK2.

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)