AB-NK055-1

ERK1-1 Antibody

Pan-specific polyclonal antibody for monitoring the expression of human protein-serine/threonine kinase ERK1 (MAPK3)

Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

Email: info@kinexus.ca
Phone: 604-323-2547

Target Protein

Name Long:	Extracellular regulated protein-serine kinase 1 (p44 MAP kinase)
Alias:	ERK-1; ERT2; Insulin-stimulated MAP2 kinase; Kinase ERK1; MAP kinase 1; MAPK 1; MAPK1; MAPK3; PRKM3; p44ERK1; p44MAPK; MGC20180; ENSG00000102882
UniProt ID:	P27361
Sequence Predicted Mass (KDa):	43.136 (379 AA; P27361); 40.088 (357 AA; P27361-3); 38.275 (335 AA; P27361-2)
Observed SDS-PAGE Mass (KDa):	42-47

Immunogen

Antibody Immunogen Source:	Human ERK1 (MAPK3) sequence peptide Cat. No.: PE-01AXB99
Antibody Immunogen Sequence:	CGVPGEVEMVKGQPFD
Location in Target:	Corresponds to amino acid residues G23 to D37; Post-N-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 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:	0.75 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
Antibody Positive Controls:	Strong immunoreactivity with recombinant human ERK1 on protein dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Strong immunoreactivity of a target-sized protein by Western blotting in in mouse brain.
Overall Antibody Specificity:	Medium-High selectivity
Antibody Cross Reactivities:	No immunoreactivity on protein dot blots with recombinant human ERK2 and ERK5. No significant cross-reactivities detected.