

# AB-NK056-3

## ERK2-2 Antibody

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



**KINEXUS**

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### Target Protein

<b>Name Long:</b>	Extracellular regulated protein-serine kinase 2 (p42 MAP kinase)
<b>Alias:</b>	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
<b>UniProt ID:</b>	P28482
<b>Sequence Predicted Mass (KDa):</b>	41.390 (360 AA; P28482); 36.432 (316 AA; P28482-2)
<b>Observed SDS-PAGE Mass (KDa):</b>	40-44

### Immunogen

<b>Antibody Immunogen Source:</b>	Human ERK2 (MAPK1) sequence peptide Cat. No.: PE-01AXF99
<b>Antibody Immunogen Sequence:</b>	HKNKVPWNRLFPNADC
<b>Location in Target:</b>	Corresponds to amino acid residues H269 to D283; Pre-kinase last alpha-chain
<b>Peptide Type:</b>	For pan-specific recognition of target expression levels.
<b>Target Phosphosite:</b>	Not phosphorylated

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Ig Isotype Clone Lot:</b>	Immunoglobulin G
<b>Production Method:</b>	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.
<b>Antibody Amount:</b>	25 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Lot Number:</b>	140724
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerazol
<b>Storage Conditions and Stability:</b>	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

<b>Product Use:</b>	Western blotting   Antibody microarrays
<b>Antibody Dilution Recommended:</b>	1 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human, mouse, rat and many other mammals
<b>Overall Antibody Specificity:</b>	Medium selectivity
<b>Antibody Cross Reactivities:</b>	No immunoreactivity on protein dot blots with recombinant human ERK1 and ERK5.

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](http://www.kinexusproducts.ca) or contact us at 1-866-KINEXUS(546-3987)