

AB-PK623

ERK3-pS189 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase ERK3 (MAPK6)



KINEXUS

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Target Protein

Name Long:	Extracellular regulated protein-serine kinase 3
Alias:	MAPK6; Mitogen-activated protein kinase 6; MK06; P55-MAPK; P97-MAPK; PRKM4; PRKM6; DKFZp686F03189; HsT17250; CCDS10147.1; ENSG00000069956
UniProt ID:	Q16659
Sequence Predicted Mass (kDa):	82.681 (721 AA; Q16659)
Observed SDS-PAGE Mass (kDa):	95-100

Immunogen

Antibody Immunogen Source:	Human ERK3 (MAPK6) sequence peptide Cat. No.: PE-04AKF90
Antibody Immunogen Sequence:	GHL(pS)EGL(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues G186 to L192; In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-189

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. This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Number:	141204
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:	Very weak immunoreactivity of a target-sized protein by Western blotting in MCF7 cells.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in A431 cells, except a 75 KDa cross-reactive protein can be observed in both cell lines.

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)