

AB-PK625

ERK5-pT219+pY221 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation 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-04AKG90
Antibody Immunogen Sequence:	YFM(pT)E(pY)V(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues Y216 to V222; 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:	Thr-219+Tyr-221

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 multipеп 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. This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Number:	141107
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 immunogen peptide on dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Strong immunoreactivity of a target-sized protein by Western blotting in maturing sea star oocytes and A431 cells. Weak detection of ERK5 in HEK-293, HeLa, HepG2, and MCF7.
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	No immunoreactivity on protein dot blots with recombinant human ERK2. No significant cross-reactive proteins detected in A431, HEK-293, HeLa, HepG2 and MCF7 cells and sea star oocytes, except for strong cross-reactivity with phospho-ERK1 and phospho-ERK2, and also in sea star oocytes 3 proteins with molecular masses greater than 120 KDa.

This product is for in vitro research use only and is not intended for use in humans or animals.

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