

# AB-PK624

## ERK4-pS186 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase ERK4 (MAPK4)



# KINEXUS

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### Target Protein

<b>Name Long:</b>	Extracellular regulated protein-serine kinase 4
<b>Alias:</b>	MAP kinase isoform p63; MAPK4; MK04; P63-MAPK; PRKM4; ERK-3 related; extracellular signal-regulated kinase 4; ENSG00000141639
<b>UniProt ID:</b>	P31152
<b>Sequence Predicted Mass (KDa):</b>	65.922 (587 AA; P31152)
<b>Observed SDS-PAGE Mass (KDa):</b>	55-65

### Immunogen

<b>Antibody Immunogen Source:</b>	Human ERK4 (MAPK4) sequence peptide
<b>Antibody Immunogen Sequence:</b>	GYL(pS)EGLV(bA)C (bA) = beta-alanine
<b>Location in Target:</b>	Corresponds to amino acid residues G183 to V190; In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
<b>Peptide Type:</b>	For phosphosite-specific recognition of target.
<b>Target Phosphosite:</b>	Ser-186

### 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 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.
<b>Antibody Amount:</b>	25 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Lot Number:</b>	141003
<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>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human, mouse, rat and many other mammals
<b>Antibody Positive Controls:</b>	Very strong immunoreactivity with immunogen peptide on dot blots.
<b>Overall Antibody Specificity:</b>	Very high selectivity
<b>Antibody Cross Reactivities:</b>	No significant cross-reactive proteins detected in HEK-293 and Jurkat cells, and seastar oocytes, except for phospho-ERK1.

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)