

# AB-PK878

## ERK1-pS265 Antibody

Phosphosite-specific rabbit polyclonal antibody for ERK1 (MAPK3). This phosphoserine-site antibody also cross-reacts with phosphothreonine, phosphotyrosine and glutamic acid substitutions.

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### Target Protein

<b>Protein Name Long:</b>	Extracellular regulated protein-serine kinase 1 (p44 MAP kinase)
<b>Protein Alias:</b>	ERK-1; ERT2; Insulin-stimulated MAP2 kinase; Kinase ERK1; MAP kinase 1; MAPK 1; MAPK1; MAPK3; PRKM3; p44ERK1; p44MAPK; MGC20180; ENSG00000102882
<b>UniProt ID:</b>	P27361
<b>Protein Molecular Mass:</b>	43,136 Da (379 AA; P27361); 40,088 Da (357 AA; P27361-3); 38,275 Da (335 AA; P27361-2)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human ERK1
<b>Antibody Immunogen Sequence:</b>	GSP(pS)QED(βA)C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues G262 to D268. The effect of S265 phosphorylation is unknown. Its phosphorylation has been observed in only one mass spectrometry study.
<b>Antibody Target Type:</b>	Phosphosite-specific

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Isotype:</b>	IgG
<b>Production Method:</b>	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 these animals 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>Amount:</b>	25 µg
<b>Antibody Concentration:</b>	0.75 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
<b>Storage Conditions:</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.
<b>Storage Stability:</b>	>2 years

## Applications

<b>Product Use:</b>	Western blotting   Antibody microarray
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human   Chimpanzee   Dog   Rat   Mouse   Chicken   Frog   Zebra fish   Fruit fly   Sea urchin

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 <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987