

# AB-PK880

## ERK2-pY263+S266 Antibody

Phosphosite-specific rabbit polyclonal antibody for ERK2 (MAPK1)



**KINEXUS**

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### Target Protein

<b>Protein Name Long:</b>	Extracellular regulated protein-serine kinase 2 (p42 MAP kinase)
<b>Protein 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>Protein Molecular Mass:</b>	41,390 Da (360 AA; P28482); 36,432 Da (316 AA; P28482-2)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human ERK2
<b>Antibody Immunogen Sequence:</b>	ARN(pY)LL(pS)LPH(βA)C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues A260 to H269. The effects of Y263 and S266 phosphorylation are unknown. Phosphorylation of Y263 has only been observed once in a mass spectrometry studies with human ERK2, and phosphorylation of S266 has not been reported.
<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 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 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>Lot Numbers:</b>	
<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   Platypus   Chicken   Frog   Zebra fish   Honey bee   Nematode worm   Sea urchin

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

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