



ERK 3 (phospho Ser189) Polyclonal Antibody

Catalog No	YP-Ab-14478
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	MAPK6
Immunogen	The antiserum was produced against synthesized peptide derived from human ERK3 around the phosphorylation site of Ser189. AA range:155-204
Specificity	Phospho-ERK 3 (S189) Polyclonal Antibody detects endogenous levels of ERK 3 protein only when phosphorylated at S189.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ERK 3;MAPK6;Mitogen-activated protein kinase 6;ERK3;PRKM6;MAP kinase 6; MAPK 6;Extracellular signal-regulated kinase 3;ERK-3;MAP kinase isoform p97; p97-MAPK
Observed Band	90kD
Calculated Molecular Weight	90kD
Cell Pathway	Cytoplasm . Nucleus . Translocates to the cytoplasm following interaction with MAPKAPK5. .
Tissue Specificity	Highest expression in the skeletal muscle, followed by the brain. Also found in heart, placenta, lung, liver, pancreas, kidney and skin fibroblasts.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein., cofactor:Magnesium.,domain:The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.,enzyme regulation:Activated by threonine and tyrosine phosphorylation., function:Phosphorylates microtubule-associated protein 2 (MAP2). May promote entry in the cell cycle.,PTM:Dually phosphorylated on Thr-626 and Tyr-628, which activates the enzyme.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.,similarity:Contains



1 protein kinase domain.,tissue specificity:Highest expression in the skeletal muscle, followed by the brain. Also found in heart, placenta, lung, liver, pancreas, kidney and skin fibroblasts.,

Background

The protein encoded by this gene is a member of the Ser/Thr protein kinase family, and is most closely related to mitogen-activated protein kinases (MAP kinases). MAP kinases also known as extracellular signal-regulated kinases (ERKs), are activated through protein phosphorylation cascades and act as integration points for multiple biochemical signals. This kinase is localized in the nucleus, and has been reported to be activated in fibroblasts upon treatment with serum or phorbol esters. [provided by RefSeq, Jul 2008],

matters needing attention

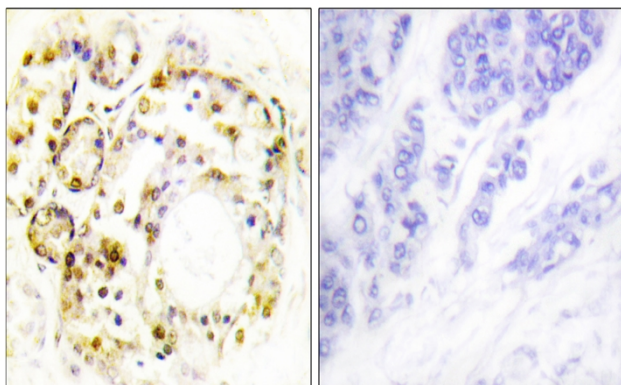
Avoid repeated freezing and thawing!

Usage suggestions

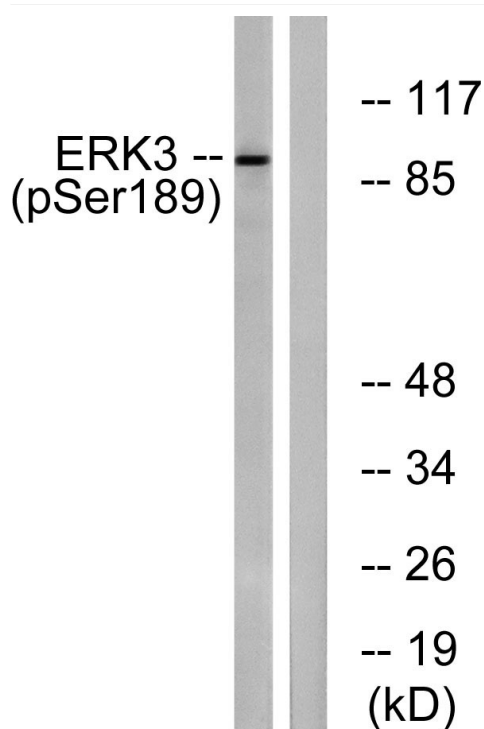
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Products Images



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using ERK3 (Phospho-Ser189) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from mouse brain, using ERK3 (Phospho-Ser189) Antibody. The lane on the right is blocked with the phospho peptide.