

ERK 3 (phospho Ser189) Polyclonal Antibody

Catalog No: YP0738

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: ERK 3

Fields: >>IL-17 signaling pathway

Gene Name: MAPK6

Protein Name: Mitogen-activated protein kinase 6

Q16659

Q61532

Human Gene Id: 5597

Human Swiss Prot

No:

Mouse Gene Id: 50772

Mouse Swiss Prot

No:

Rat Gene ld: 58840

Rat Swiss Prot No: P27704

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

Dilution : WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200

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Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 90kD

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],

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.,

Subcellular Cytoplasm . Nucleus . Translocates to the cytoplasm following interaction with

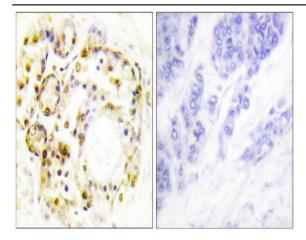
Location: MAPKAPK5...

Expression: Highest expression in the skeletal muscle, followed by the brain. Also found in

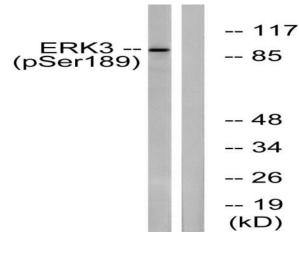
heart, placenta, lung, liver, pancreas, kidney and skin fibroblasts.

Products Images

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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.