

ERK 8(Phospho Thr175/Y177) Polyclonal Antibody

Description

Product type Primary Antibody

Code BT-AP15462

Host Rabbit

Isotype IgG

Size 20ul, 50ul, 100ul

Immunogen The antiserum was produced against synthesized peptide derived from human ERK8 around the

phosphorylation site of Thr175 and Tyr177. AA range:141-190

Mol wt 59832

Species reactivity Human, Mouse

Clonality Polyclonal

Recommended application WB, IHC-p, IF, ELISA

Concentration 1 mg/ml

Full name Mitogen-activated protein kinase 15

Synonyms Mitogen-activated protein kinase 15; MAPK15; ERK7; ERK8; Mitogen-activated protein kinase 15; MAP

kinase 15; MAPK 15; Extracellular signal-regulated kinase 7; ERK-7; Extracellular signal-regulated kinase

8; ERK-8

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,The N-terminal region (1-20) is the minimal region necessary for ubiquitination and further proteosomal degradation.,The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.,enzyme regulation:Activated by threonine and tyrosine phosphorylation. Inhibited by dual specificity phosphatases, such as DUSP1.,In vitro, phosphorylates MBP.,PTM:Dually phosphorylated on Thr-175 and Tyr-177, which activates the enzyme.

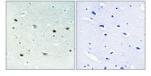
Autophosphorylated on threonine and tyrosine residues in vitro.,PTM:Ubiquitinated. Ubiquitination may allow its tight kinase activity regulation and rapid turnover. May be ubiquitinated by a SCF E3 ligase.,Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.,Contains 1 protein kinase domain.,subunit:Interacts with CSK/c-Src, ABL1, RET and TGFB1I1.,tissue specificity:Widely expressed with a maximal expression in lung and kidney.,

Recommended Dilution

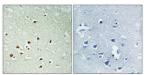
WB: 1: 500 - 1: 2000 IHC-p: 1: 100 - 1: 300 ELISA: 1: 5000

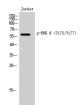
Not yet tested in other applications.

Images



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4°C overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.





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Western Blot analysis of Jurkat cells using Phospho-ERK 8 (T175/Y177) Polyclonal Antibody

Western blot analysis of lysates from Jurkat cells, using ERK8 (Phospho-Thr175+Tyr177) Antibody. The lane on the right is blocked with the phospho peptide.

Storage

-20°C for 1 year

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