

ERK 8 (Phospho Thr175/Tyr177) Rabbit pAb

CatalogNo: YP0357

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, IHC, IF, ELISA

MW

- 60kD (Observed)

Isotype

- IgG

Storage

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

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:5000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human ERK8 around the phosphorylation site of Thr175 and Tyr177. AA range:141-190

Specificity

This antibody detects endogenous levels of Erk8 when phosphorylated at Thr175 or Tyr177, and dually phosphorylated at two sites. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):VtEyVA

Target Information

Gene name MAPK15

Protein Name Mitogen-activated protein kinase 15

Organism	Gene ID	UniProt ID
Human	225689 ;	Q8TD08 ;
Mouse	332110 ;	Q80Y86 ;

Cellular Localization

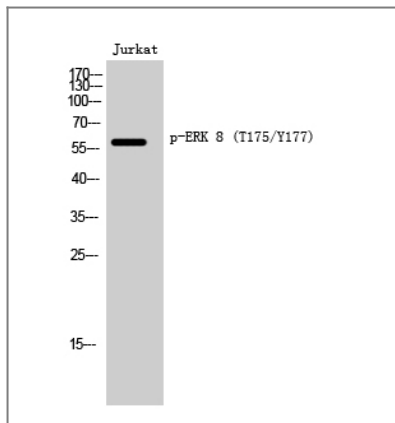
Cytoplasm , cytoskeleton , cilium basal body . Cell junction , tight junction . Cytoplasm , cytoskeleton , microtubule organizing center , centrosome , centriole . Cytoplasmic vesicle , autophagosome . Golgi apparatus . Nucleus . Cytoplasm . Cytoplasm , cytoskeleton , spindle . Co-localizes to the cytoplasm only in presence of ESRRA (PubMed:21190936) . Translocates to the nucleus upon activation (PubMed:20638370) . At prometaphase I , metaphase I (MI) , anaphase I , telophase I , and metaphase II (MII) stages , is stably detected at the spindle (By similarity) . .

Tissue specificity Widely expressed with a maximal expression in lung and kidney.

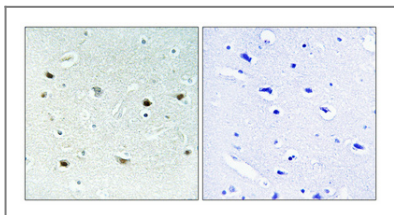
Function

Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,Domain:The N-terminal region (1-20) is the minimal region necessary for ubiquitination and further proteosomal degradation. ,Domain: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. ,Function: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. ,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily. ,similarity: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. ,

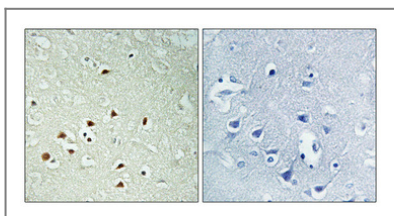
Validation Data



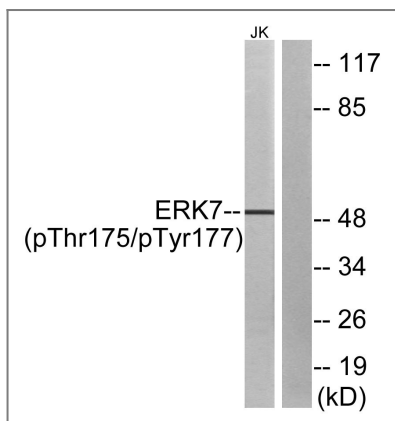
Western Blot analysis of Jurkat cells using Phospho-ERK 8 (T175/Y177) Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



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. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



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. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



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.

Contact information

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