

Anti-Phospho-MEK4 (Ser80) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

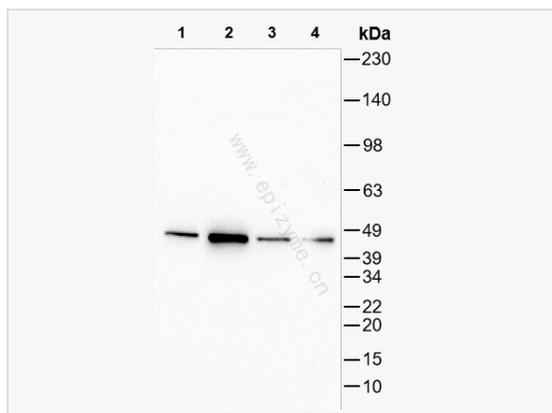
Catalog # R013229

Product Information

| | |
|-------------|---|
| Application | WB, IHC-P/IF (Tissue-P), ELISA |
| Reactivity | Human, Mouse |
| Dilution | WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200 |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone No. | 81K18K58 |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | A synthetic phosphopeptide corresponding to residues surrounding Ser80 of human MEK4/MKK4 |
| Format | Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3. |
| Storage | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-Phospho-MEK4 (Ser80) Rabbit mAb [81K18K58] is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

| | |
|-------------------|---|
| Synonyms | JNKK; JNKK1; MAPKK4; MEK4; MKK4; PRKMK4; SAPKK-1; SAPKK1; SEK1; SERK1; SKK1; MAPKK 4; MP2K4_HUMAN; MAP2K4; MAP kinase kinase 4; JNK-activating kinase 1; MAPK/ERK kinase 4 (MEK 4); SAPK/ERK kinase 1 (SEK1); Stress-activated protein kinase kinase 1 (SAPK kinase 1 SAPKK-1 SAPKK1); c-Jun N-terminal kinase kinase 1 (JNKK); 2.7.12.2; MP2K4_MOUSE; C-JUN N-terminal kinase kinase 1 (JNK kinase 1 JNKK 1). |
| Calculated MW | Calculated MW: 44 kDa; Observed MW: 44 kDa |
| Uniprot ID | P45985 |
| Gene ID | 6416 |
| Background | This gene encodes a member of the mitogen-activated protein kinase (MAPK) family. Members of this family act as an integration point for multiple biochemical signals and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation, and development. They form a three-tiered signaling module composed of MAPKKKs, MAPKKs, and MAPKs. This protein is phosphorylated at serine and threonine residues by MAPKKKs and subsequently phosphorylates downstream MAPK targets at threonine and tyrosine residues. A similar protein in mouse has been reported to play a role in liver organogenesis. A pseudogene of this gene is located on the long arm of chromosome X. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013] |
| Cellular Location | Cytoplasm Nucleus |
| Tissue Location | Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues. |



Western Blot - Anti-Phospho-MEK4 (Ser80) Rabbit mAb [81K18K58]

All lanes: R013229 at 1:2,000 dilution

Lane 1: Hel (Human erythroLeukemia suspension cell) whole cell lysates

Lane 2: THP-1 (Human monocytic leukemia cell) whole cell lysates

Lane 3: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates

Lane 4: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

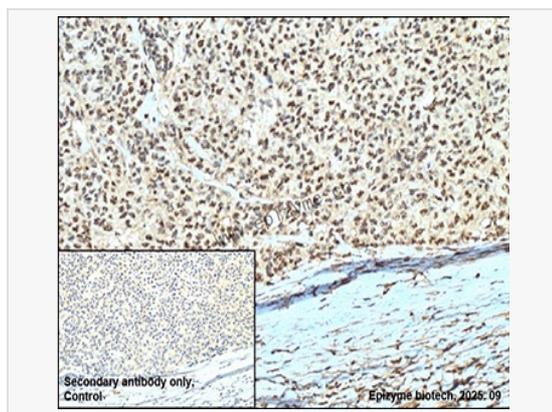
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 44 kDa

Observed band size: 44 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Phospho-MEK4 (Ser80) Rabbit mAb [81K18K58]

Sample: Paraformaldehyde-fixed, paraffin embedded human hepatoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R013229 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.