Anti-Phospho-MEK4 (Ser80) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013229

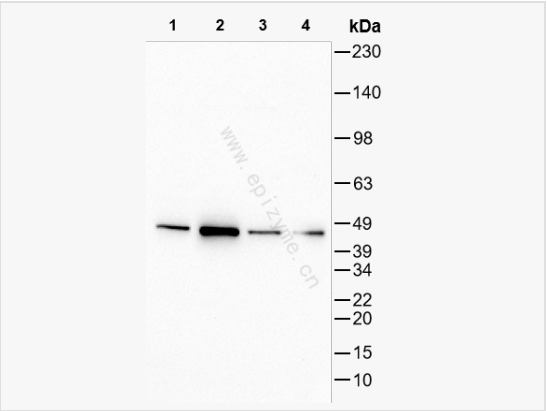
Product Information

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.

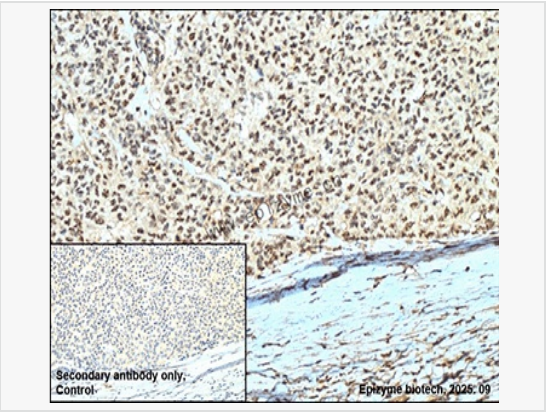
Protein Information

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.

Validation Images



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.