Anti-MEK1 Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

Catalog # M016180

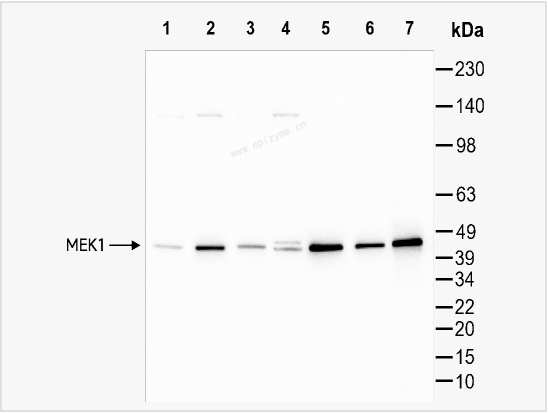
Product Information

Application	WB, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000
Host	Mouse
Clonality	Monoclonal
Clone No.	53R16N63
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human MEK1
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-MEK1 Mouse mAb [53R16N63] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	MAP2K1; MEK1; PRKMK1; Dual specificity mitogen-activated protein kinase kinase 1; MAP kinase kinase 1; MAPKK 1; MKK1; ERK activator kinase 1; MAPK/ERK kinase 1; MEK 1.
Calculated MW	Calculated MW: 43 kDa; Observed MW: 44 kDa
Uniprot ID	Q02750
Gene ID	5604
Background	The protein encoded by this gene is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. As an essential component of MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development. [provided by RefSeq, Jul 2008]
Cellular Location	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, microtubule organizing center, spindle pole body. Cytoplasm. Nucleus. Membrane; Peripheral membrane protein. Note: Localizes at centrosomes during prometaphase, midzone during anaphase and midbody during telophase/cytokinesis. Membrane localization is probably regulated by its interaction with KSR1.
Tissue Location	Widely expressed, with extremely low levels in brain.

Validation Images



Western Blot - Anti-MEK1 Mouse mAb [53R16N63]
All lanes: M016180 at 1:2,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 3: 293T (Human embryonic kidney cell) whole cell lysates
Lane 4: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 5: Mouse brain whole tissue lysates
Lane 6: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lane 7: Rat brain whole tissue lysates
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution
Lysates/proteins at 10 µg per lane.
Predicted band size: 43 kDa
Observed band size: 44 kDa
Developed using the ECL technique (Cat. No. SQ201).