

Anti-MEK1/2 Monoclonal Antibody

Mouse Monoclonal Antibody

Catalog # AP53390

Product Information

Primary Accession	P36507 , Q02750
Other Accession	NM_002755
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Immunogen	Recombinant human MEK1 protein.
Purification	Affinity purified
Calculated MW	44424

Additional Information

Gene ID	5605
Other Names	AA589381; Dual specificity mitogen-activated protein kinase kinase 1; Dual specificity mitogen-activated protein kinase kinase 2; EC 2.7.12.2; ERK activator kinase 1; ERK activator kinase 2; FLJ26075; MAP kinase kinase 1; MAP kinase kinase 2; MAP2K1; MAP2K2; MAPK/ERK kinase 1; MAPK/ERK kinase 2; MAPKK 1; MAPKK1; MAPKK2; MEK 1; MEKK1; Mitogen activated protein kinase kinase 1; Mitogen activated protein kinase kinase 2; Mitogen-activated protein kinase kinase 2, p45; MK2; MKK 1; MKK 2; MKK1; MKK2; MP2K1_HUMAN; PRKMK 1; PRKMK 2; Prkmk1; Prkmk2; protein kinase, mitogen-activated, kinase 1 (MAP kinase kinase 1); Protein kinase, mitogen-activated, kinase 1; Protein kinase, mitogen-activated, kinase 2.
Format	Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.09% (W/V) sodium azide and 50% glycerol.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	MAP2K2
Synonyms	MEK2, MKK2, PRKMK2
Function	Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in MAP kinases. Activates the ERK1 and ERK2 MAP kinases (By similarity). Activates BRAF in a KSR1 or KSR2-dependent manner; by binding to KSR1 or KSR2 releases the inhibitory intramolecular interaction between KSR1 or KSR2 protein kinase and

N-terminal domains which promotes KSR1 or KSR2-BRAF dimerization and BRAF activation (PubMed:[29433126](#)).

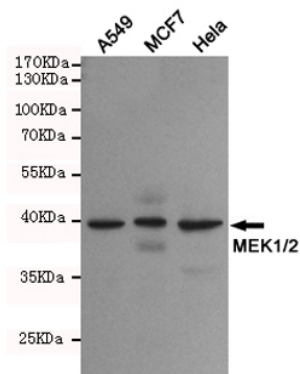
Cellular Location

Cytoplasm. Membrane; Peripheral membrane protein. Note=Membrane localization is probably regulated by its interaction with KSR1.

Background

Dual specificity protein kinase which acts as an essential component of the MAP kinase signal transduction pathway. Binding of extracellular ligands such as growth factors, cytokines and hormones to their cell-surface receptors activates RAS and this initiates

Images



Western blot detection of MEK1/2 in A549, MCF7 and HeLa cell lysates using MEK1/2 mouse mAb(dilution 1:500).Predicted band size:45kDa.Observed band size:45kDa.

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