

MEK Kinase-2 Monoclonal Antibody

Catalog No :	YM0434
Reactivity :	Human
Applications :	WB;IF;ELISA
Target :	MAP3K2
Fields :	>>MAPK signaling pathway;>>Gap junction;>>GnRH signaling pathway
Gene Name :	MAP3K2
Protein Name :	Mitogen-activated protein kinase kinase kinase 2
Human Gene Id :	10746
Human Swiss Prot No :	Q9Y2U5
Mouse Swiss Prot No :	Q61083
Immunogen :	Purified recombinant fragment of human MEK Kinase-2 expressed in E. Coli.
Specificity :	MEK Kinase-2 Monoclonal Antibody detects endogenous levels of MEK Kinase-2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	70kD

Cell Pathway : SAPK_JNK; Regulation of Actin Dynamics; Cell Growth; Stem cell pathway; MAPK_ERK_Growth;MAPK_G_Protein; B Cell Receptor

P References : 1. Clin Cancer Res. 2009 Sep 1;15(17):5541-51.
2. J Biol Chem. 2009 May 15;284(20):13533-41.

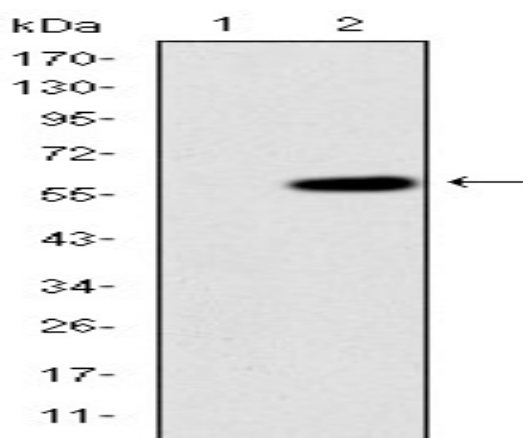
Background : The protein encoded by this gene is a member of serine/threonine protein kinase family. This kinase preferentially activates other kinases involved in the MAP kinase signaling pathway. This kinase has been shown to directly phosphorylate and activate I kappa B kinases, and thus plays a role in NF-kappa B signaling pathway. This kinase has also been found to bind and activate protein kinase C-related kinase 2, which suggests its involvement in a regulated signaling process. [provided by RefSeq, Jul 2008],

Function : catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Activated by phosphorylation on Thr-524.,function:Component of a protein kinase signal transduction cascade. Regulates the JNK and ERK5 pathways by phosphorylating and activating MAP2K5 and MAP2K7 (By similarity). Plays a role in caveolae kiss-and-run dynamics.,PTM:Autophosphorylated.,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.,similarity:Contains 1 OPR domain.,similarity:Contains 1 protein kinase domain.,subcellular location:Upon EGF stimulation, translocates into the nucleus.,subunit:Bounds both upstream activators and downstream substrates in multimolecular complexes.,

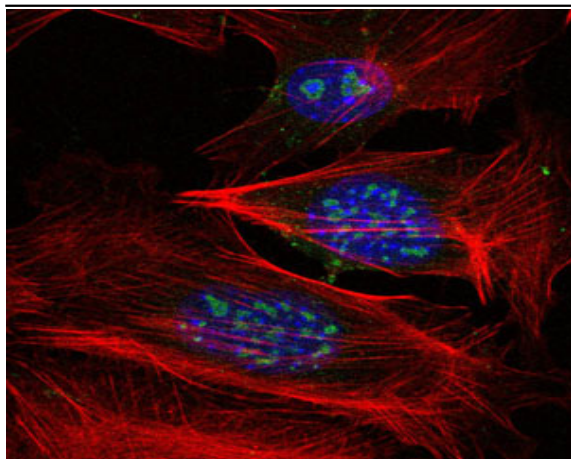
Subcellular Location : Cytoplasm . Nucleus . Upon EGF stimulation, translocates into the nucleus.

Expression : Brain,Platelet,T-cell,Teratocarcinoma,Whole embryo,

Products Images



Western Blot analysis using MEK Kinase-2 Monoclonal Antibody against HEK293 (1) and MAP3K2-hlgGfc transfected HEK293 (2) cell lysate.



Immunofluorescence analysis of 3T3-L1 cells using MEK Kinase-2 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

