

**MEK Kinase-2 Monoclonal Antibody**

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

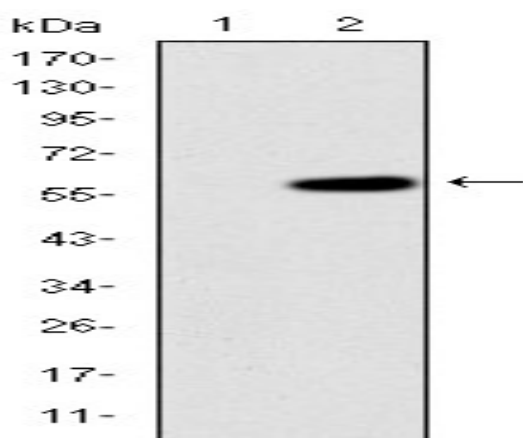
**Background :** The protein encoded by this gene is a member of serine/threonine protein kinase family. This kinase preferentially activates other kinases involved in the MAP kinase signaling pathway. This kinase has been shown to directly phosphorylate and activate I $\kappa$ B kinases, and thus plays 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:Binds both upstream activators and downstream substrates in multimolecular complexes.,

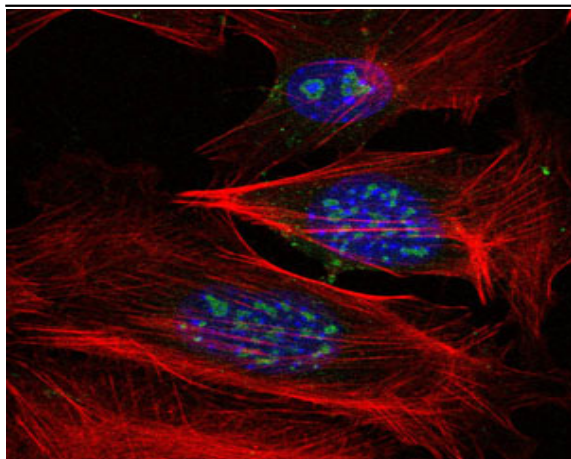
**Subcellular Location :** Cytoplasm . Nucleus . Upon EGF stimulation, translocates into the nucleus.

**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.

