Best Tools for immunology Research

MEK Kinase-3 Polyclonal Antibody

Catalog No :	YT2708
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	MEK Kinase-3
Fields :	>>MAPK signaling pathway;>>Neurotrophin signaling pathway;>>GnRH signaling pathway;>>Human T-cell leukemia virus 1 infection;>>PD-L1 expression and PD-1 checkpoint pathway in cancer
Gene Name :	MAP3K3
Protein Name :	Mitogen-activated protein kinase kinase kinase 3
Human Gene Id :	4215
Human Swiss Prot No :	Q99759
Mouse Gene Id :	26406
Mouse Swiss Prot No :	Q61084
Immunogen :	The antiserum was produced against synthesized peptide derived from human MAP3K3. AA range:101-150
Specificity :	MEK Kinase-3 Polyclonal Antibody detects endogenous levels of MEK Kinase-3 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 71kD

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

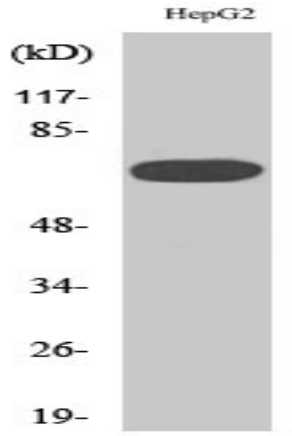
Background : This gene product is a 626-amino acid polypeptide that is 96.5% identical to mouse Mekk3. Its catalytic domain is closely related to those of several other kinases, including mouse Mekk2, tobacco NPK, and yeast Ste11. Northern blot analysis revealed a 4.6-kb transcript that appears to be ubiquitously expressed. This protein directly regulates the stress-activated protein kinase (SAPK) and extracellular signal-regulated protein kinase (ERK) pathways by activating SEK and MEK1/2 respectively; it does not regulate the p38 pathway. In cotransfection assays, it enhanced transcription from a nuclear factor kappa-B (NFKB)-dependent reporter gene, consistent with a role in the SAPK pathway. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008],

Function : catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Activated by phosphorylation on Thr-530.,function:Component of a protein kinase signal transduction cascade. Mediates activation of the NF-kappa-B, AP1 and DDIT3 transcriptional regulators.,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase kinase subfamily.,similarity:Contains 1 OPR domain.,similarity:Contains 1 protein kinase domain.,subunit:Binds both upstream activators and downstream substrates in multimolecular complexes. Part of a complex with MAP2K3, RAC1 and CCM2. Interacts with MAP2K5 and SPAG9.,

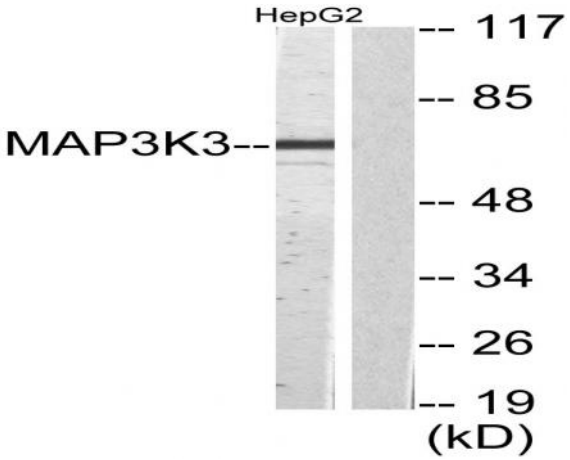
Subcellular Location : cytoplasm,cytosol,

Expression : Aorta,Brain,Epithelium,Kidney,Melanoma,Placenta,PNS

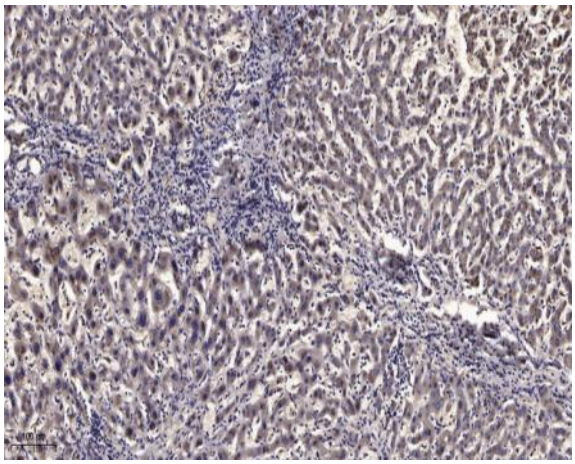
Products Images



Western Blot analysis of various cells using MEK Kinase-3 Polyclonal Antibody diluted at 1:2000



Western blot analysis of lysates from HepG2 cells, using MAP3K3 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).