

## **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:

Mouse Gene Id: 26406

**Mouse Swiss Prot** 

No:

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.

Q99759

Q61084

**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-

1/3



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

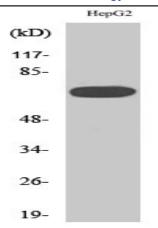
subfamily.,similarity:Contains 1 OPR domain.,similarity:Contains 1 protein kinase domain.,subunit:Binds both upstream activators and downstream substrates in multimolecular complexes. Part of a complex with MAP2K3, RAC1 and CCM2.

Interacts with MAP2K5 and SPAG9.,

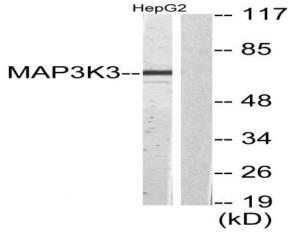
Subcellular Location : cytoplasm, cytosol,

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

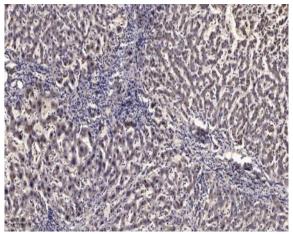
## **Products Images**



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).