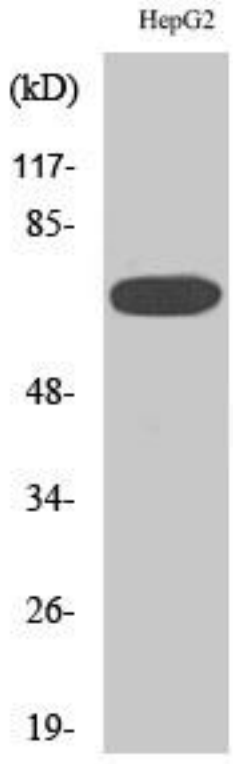
MEK Kinase-3 Monoclonal Antibody

Catalog No	YP-mAb-14832
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	MAP3K3
Immunogen	The antiserum was produced against synthesized peptide derived from human MAP3K3. AA range:101-150
Specificity	MEK Kinase-3 Monoclonal 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	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MAP3K3;MAPK/ERK kinase kinase 3;MAPKKK3;MEK kinase 3;MEKK 3;MEKK3; MEK Kinase-3;Mitogen-activated protein kinase kinase kinase 3
Observed Band	71kD
Calculated Molecular Weight	71kD
Cell Pathway	cytoplasm,cytosol,
Tissue Specificity	Aorta,Brain,Epithelium,Kidney,Melanoma,Placenta,PNS
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.,

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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using MEK Kinase-3 Monoclonal Antibody