



MKK3/6 mouse mAb

Catalog No	YP-Ab-14237
Isotype	IgG
Reactivity	Human;Rat
Applications	WB;IP
Gene Name	map2k3
Immunogen	Purified recombinant human MKK6 protein fragments expressed in E.coli.
Specificity	This antibody detects endogenous levels of MKK3 and MKK6 and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb dilution 1:1000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MEK3;1H3E10;Dual specificity mitogen-activated protein kinase kinase 3; EC:2.7.12.2;MAP kinase;MKK3/6;map2k3;AW212142;dual specificity mitogen activated protein kinase kinase 3;Dual specificity mitogen activated protein kinase kinase 6;MAP kinase kinase 3;MAP kinase kinase 6;MAP2K6;MAPK ERK kinase 3;MAPK/ERK kinase 3;MAPK/ERK kinase 6;MAPKK 3;MAPKK 6; MAPKK3;MAPKK6;MEK 3;MEK 6;Mitogen activated protein kinase kinase 3; Mitogen activated protein kinase kinase 6;MKK 3;MKK3;MKK6;mMKK3b; MP2K3_HUMAN;PRKMK 3;PRKMK3;PRKMK6;Protein kinase;mitogen activated;kinase 6 (MAP kinase kinase 6);mitogen-activated;kinase 3;SAPK kinase 2;SAPKK 2;SAPKK 3;SAPKK-2;SAPKK2;SAPKK3;Stress activated protein kinase kinase 2;Stress activated protein kinase kinase 3;Stress-activated protein kinase kinase 2.
Observed Band	40kD
Calculated Molecular Weight	40kD
Cell Pathway	Nucleus . Cytoplasm . Cytoplasm, cytoskeleton . Binds to microtubules.
Tissue Specificity	Isoform 2 is only expressed in skeletal muscle. Isoform 1 is expressed in skeletal muscle, heart, and in lesser extent in liver or pancreas.

**Function**

catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme regulation:Probably activated by dual phosphorylation on Ser-207 and Thr-211., function:Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in MAP kinase p38 exclusively.,induction:Strongly activated by UV, anisomycin, and osmotic shock but not by phorbol esters, NGF or EGF., PTM:Acetylation of Ser-207 and Thr-211 by Yersinia yopJ prevents phosphorylation and activation, thus blocking the MAPK signaling pathway., PTM:Weakly autophosphorylated.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with Yersinia yopJ.,tissue specificity:Isoform 2 is only expressed in skeletal muscle. Isoform 1, on the other hand, is found

Background

This gene encodes a member of the dual specificity protein kinase family, which functions as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein phosphorylates and activates p38 MAP kinase in response to inflammatory cytokines or environmental stress. As an essential component of p38 MAP kinase mediated signal transduction pathway, this gene is involved in many cellular processes such as stress induced cell cycle arrest, transcription activation and apoptosis. [provided by RefSeq, Jul 2008],

matters needing attention

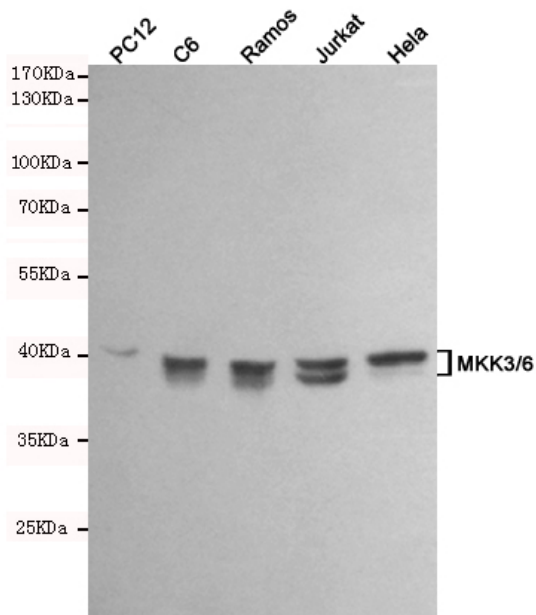
Avoid repeated freezing and thawing!

Usage suggestions

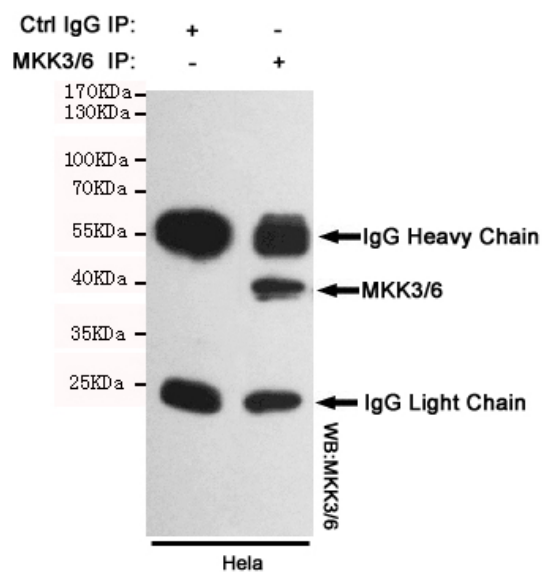
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Products Images



Western blot analysis of extracts from PC12, C6, Ramos, Jurkat and HeLa cell lysates using MKK3/6 mouse mAb (1:1000 diluted). Predicted band size: 40 kDa. Observed band size: 40 kDa.



Immunoprecipitation analysis of HeLa cell lysates using MKK3/6 mouse mAb.