



## Rabbit Anti-MAP3K4 antibody

SL11883R

<b>Product Name:</b>	MAP3K4
<b>Chinese Name:</b>	丝裂原活化蛋白激酶激酶激酶4抗体
<b>Alias:</b>	MEK kinase-4; FLJ42439; KIAA0213; M3K4_HUMAN; MAP three kinase 1; MAP3K4; MAPK/ERK kinase kinase 4; MAPKKK4 antibodyMEK kinase 4; MEKK 4; MEKK4; Mitogen-activated protein kinase kinase kinase 4; MTK1; PRO0412; RP3-473J16.4
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	182kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human MAP3K4/MEK kinase-4:1351-1450/1608
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The central core of each mitogen-activated protein kinase (MAPK) pathway is a conserved cascade of 3 protein kinases: an activated MAPK kinase kinase (MAPKKK) phosphorylates and activates a specific MAPK kinase (MAPKK), which then activates a

specific MAPK. While the ERK MAPKs are activated by mitogenic stimulation, the CSBP2 and JNK MAPKs are activated by environmental stresses such as osmotic shock, UV irradiation, wound stress, and inflammatory factors. This gene encodes a MAPKKK, the MEKK4 protein, also called MTK1. This protein contains a protein kinase catalytic domain at the C terminus. The N-terminal nonkinase domain may contain a regulatory domain. Expression of MEKK4 in mammalian cells activated the CSBP2 and JNK MAPK pathways, but not the ERK pathway. In vitro kinase studies indicated that recombinant MEKK4 can specifically phosphorylate and activate PRKMK6 and SERK1, MAPKKs that activate CSBP2 and JNK, respectively but cannot phosphorylate PRKMK1, an MAPKK that activates ERKs. MEKK4 is a major mediator of environmental stresses that activate the CSBP2 MAPK pathway, and a minor mediator of the JNK pathway. Two alternatively spliced transcripts encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]

**Function:**

Component of a protein kinase signal transduction cascade. Activates the CSBP2, P38 and JNK MAPK pathways, but not the ERK pathway. Specifically phosphorylates and activates MAP2K4 and MAP2K6.

**Subunit:**

Monomer and homodimer. Homodimerization enhances kinase activity. Interacts with TRAF4; this promotes homodimerization (By similarity). Binds both upstream activators and downstream substrates in multimolecular complexes. Interacts with AXIN1 and DIXDC1; interaction with DIXDC1 prevents interaction with AXIN1.

**Subcellular Location:**

Cytoplasm, perinuclear region (By similarity). Note=Localized in perinuclear vesicular-like structures, probably Golgi-associated vesicles

**Tissue Specificity:**

Expressed at high levels in heart, placenta, skeletal muscle and pancreas, and at lower levels in other tissues.

**Similarity:**

Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase kinase subfamily. Contains 1 protein kinase domain.

**SWISS:**

Q9Y6R4

**Gene ID:**

4216

**Database links:**

[Entrez Gene: 4216](#) Human

[Entrez Gene: 26407](#) Mouse

[SwissProt: Q9Y6R4](#) Human

[SwissProt: O08648](#) Mouse

[Unigene: 390428](#) Human

[Unigene: 28587](#) Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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