

MAP3K4 Rabbit pAb

db20080

Package : 20µL 50µL 100µL

Product Name : MAP3K4 Rabbit pAb**Cat.No.:** db20080**Synonyms** : MTK1; MEKK4; MEKK 4; MAPKKK4; PRO0412**Application** : WB, IHC, ICC/IF, FC**Reactivity** : Human**Host species** : Rabbit**Background**

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. Several alternatively spliced transcripts encoding distinct isoforms have been described. [provided by RefSeq, May 2014]

Immunogen

A synthetic peptide of human MAP3K4

Gene ID

4216

Swiss Prot

Q9Y6R4

Synonyms

MTK1; MEKK4; MEKK 4; MAPKKK4; PRO0412

Reactivity

Human

Application

WB, IHC, ICC/IF, FC

Recommended dilution

WB: 1:1000

IHC: 1:20

ICC/IF: 1:50

FC: 1:20

Calculated MW

182 kDa

Observed MW	200 kDa
Host species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.