# **Elabscience**<sup>®</sup>

## MAP3K4 Polyclonal Antibody

#### catalog number: E-AB-91655

Note: Centrifuge before opening to ensure complete recovery of vial contents.

1:100-1:200

Description	
Reactivity	Human;Rat
Immunogen	A synthetic peptide of human MAP3K4
Host	Rabbit
Isotype	IgG
Purification	Affinity purification
Buffer	Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer and 50% glycerol.
Applications	Recommended Dilution
WB	1:500-1:2000

#### Data

IHC



Western blot analysis of extracts of various cell lines using MAP3K4 Polyclonal Antibody at1:1000 dilution.

### **Observed-MW:170 kDa** Calculated-MW:177 kDa/181 kDa



mM PBS buffer pH 7.2 before commencing with IHC



Immunohistochemistry of paraffin-embedded human lung cancer using MAP3K4 Polyclonal Antibody at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC



Immunohistochemistry of paraffin-embedded human carcinoma using MAP3K4 Polyclonal Antibody at dilution of placenta using MAP3K4 Polyclonal Antibody at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol

staining pro	tocol. staining protocol.
Preparation & Storage	
Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

Background

### For Research Use Only

Toll-free: 1-888-852-8623 Web:www.elabscience.com

Tel: 1-832-243-6086 Email:techsupport@elabscience.com Fax: 1-832-243-6017

# **Elabscience**®

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.

For Research Use Only