

# MAP3K4 Rabbit Polyclonal Antibody

Catalog No: #54323



Package Size: #54323-1 50ul #54323-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

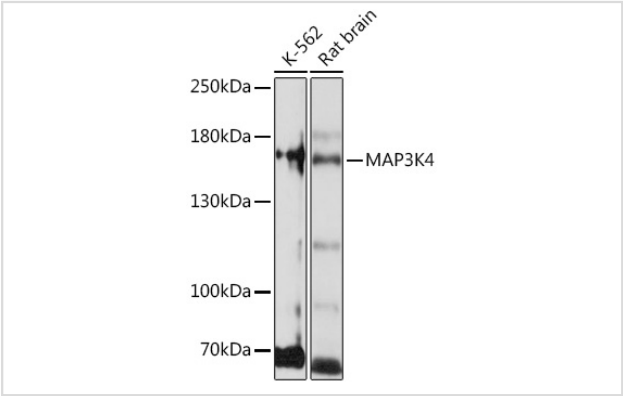
## Description

Product Name	MAP3K4 Rabbit Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IHC
Species Reactivity	Human,Rat
Immunogen Description	A synthetic peptide of human MAP3K4 (NP_005913.2).
Other Names	MAP3K4;MAPKKK4;MEKK 4;MEKK4;MTK1;PRO0412
Accession No.	Swiss Prot:Q9Y6R4Gene ID:4216
Uniprot	Q9Y6R4
GeneID	4216
Calculated MW	177kDa/181kDa
SDS-PAGE MW	170kDa
Formulation	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

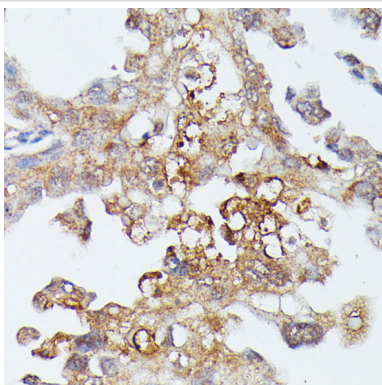
## Application Details

WB 1:2000 - 1:5000IHC 1:50 - 1:200

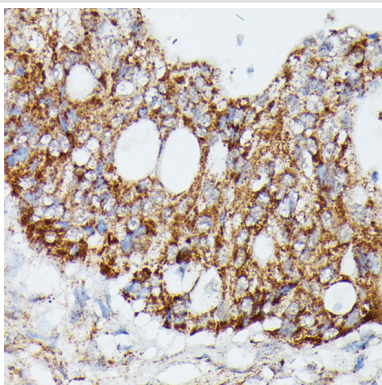
## Images



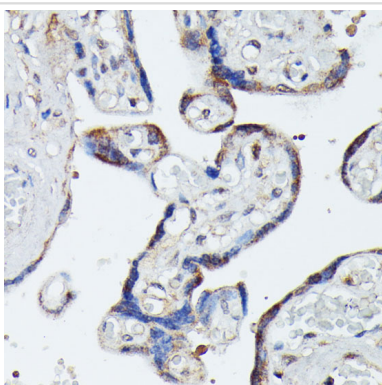
Western blot analysis of extracts of various cell lines, using MAP3K4 Rabbit pAb.



Immunohistochemistry of paraffin-embedded human lung cancer using MAP3K4 antibody.



Immunohistochemistry of paraffin-embedded human colon carcinoma using MAP3K4 antibody.



Immunohistochemistry of paraffin-embedded human placenta using MAP3K4 antibody.

## 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.

Note: This product is for in vitro research use only