

Datasheet for ABIN7268653

anti-MAP3K4 antibody

5 Images

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	MAP3K4
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This MAP3K4 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB)

Product Details

Purpose:	MAP3K4 Rabbit mAb
Immunogen:	Recombinant protein of Human MAP3K4.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	MAP3K4
Alternative Name:	MAP3K4 (MAP3K4 Products)
Background:	The central core of each mitogen-activated protein kinase (MAPK) pathway is a conserved

Target Details

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.,MAP3K4,MAPKKK4,MEKK 4,MEKK4,MTK1,PRO0412,Signal Transduction,Kinase,MAPK-JNK Signaling Pathway,MAPK-P38 Signaling Pathway,Cell Biology & Developmental Biology,Cytoskeleton,Actins,Immunology & Inflammation,B Cell Receptor Signaling Pathway,Neuroscience,MAP3K4

Molecular Weight: 177kDa/181kDa

Gene ID: 4216

UniProt: [Q9Y6R4](#)

Pathways: [MAPK Signaling](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IHC,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

Preservative: Sodium azide

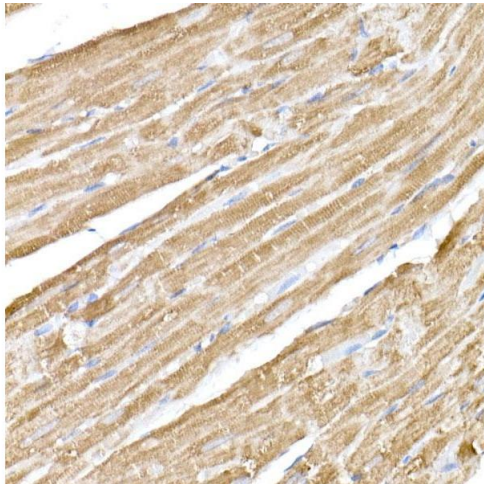
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C

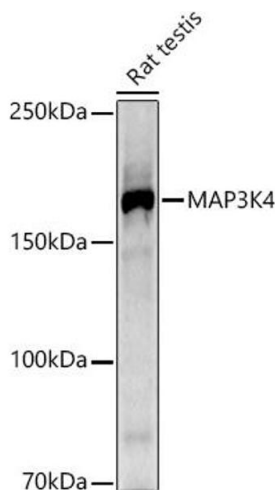
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



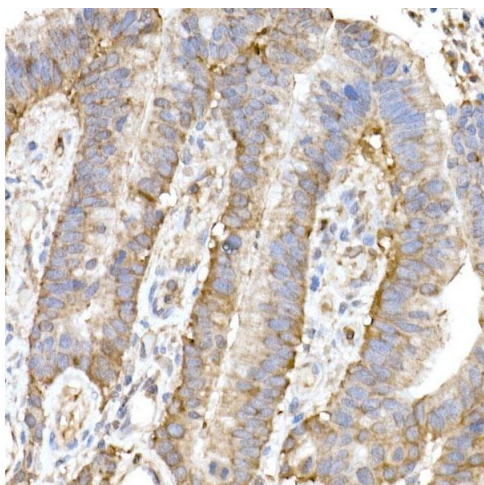
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded rat heart using MK4 Rabbit mAb (ABIN7268653) at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of Rat testis, using MK4 antibody (ABIN7268653) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human colon carcinoma using MK4 Rabbit mAb (ABIN7268653) at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7268653.