Datasheet for ABIN953298

anti-MAP3K4 antibody (Middle Region)

2 Images

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Overview

Quantity:	0.4 mL
Target:	MAP3K4
Binding Specificity:	AA 1065-1097, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAP3K4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 1065-1097 amino acids from the Central region of human MEKK4 Genename: MAP3K4
Isotype:	Ig Fraction
Specificity:	This antibody reacts to MEKK4.
Cross-Reactivity (Details):	Species reactivity (tested):Human.
Purification:	Protein A column, followed by peptide affinity purification

Target Details

Target:	MAP3K4

Target Details

Alternative Name:	MAP3K4 (MAP3K4 Products)
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. Two alternatively spliced transcripts encoding distinct isoforms have been described.Synonyms: MAP three kinase 1, MAPK/ERK kinase kinase 4, MAPKKK4, MEKK4, MTK1, Mitogen-activated protein kinase kinase kinase 4
Molecular Weight:	181685 Da
Gene ID:	4216
NCBI Accession:	NP_005913
Pathways:	MAPK Signaling

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

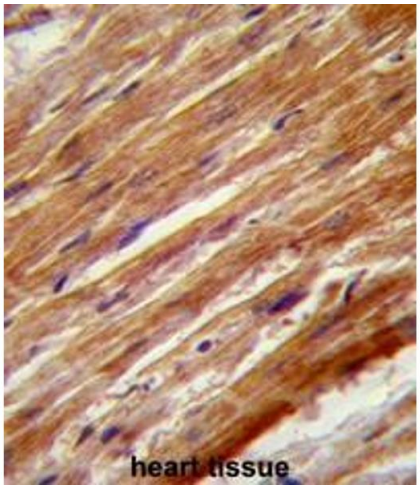
Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS containing 0.09 % (W/V) Sodium Azide as preservative
Preservative:	Sodium azide

Handling

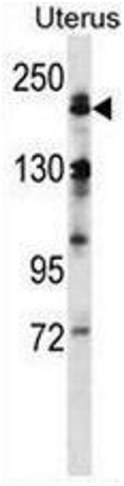
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin fixed and paraffin embedded human heart stained with MEKK4 Antibody (Center) Cat.-No AP52665PU-N tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.



Western Blotting

Image 2. Western blot analysis of MEKK4 Antibody (Center) Cat.-No AP52665PU-N in human normal Uterus cell line lysates (35µg/lane). This demonstrates the MEKK4 antibody detected the MEKK4 protein (arrow).