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anti-MAP3K4 antibody (AA 1067-1097)





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Overview	
Quantity:	400 μL
Target:	MAP3K4
Binding Specificity:	AA 1067-1097
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAP3K4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Immunogen:	This MEKK4 antibody is generated from rabbits immunized with a KLH conjugated synthetic
	peptide between 1067-1097 amino acids from the Central region of human MEKK4.
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.
Target Details	
Target:	MAP3K4
Alternative Name:	MEKK4 (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

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.

Molecular Weight:	182 kDa
Gene ID:	4216
UniProt:	Q9Y6R4
Pathways:	MAPK Signaling

Application Details

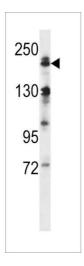
Application Notes:	For WB starting dilution is: 1:1000
	For IHC-P starting dilution is: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care

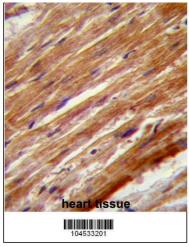
should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Images



Western Blotting

Image 1. Western blot analysis in human normal Uterus tissue lysates (35ug/lane).



Immunohistochemistry

Image 2. MEKK4 Antibody (Center C1081) immunohistochemistry analysis in formalin fixed and paraffin embedded human heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MEKK4 Antibody (Center C1081) for immunohistochemistry.