

Rabbit MEKK4 Polyclonal Antibody | anti-MAP3K4 antibody

MEKK4 Antibody (Center C1081)

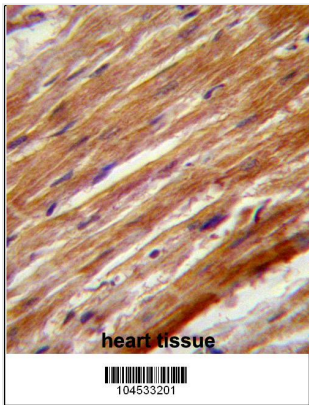
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286382	Rabbit	Human (Predicted Reactivity: Mouse)	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

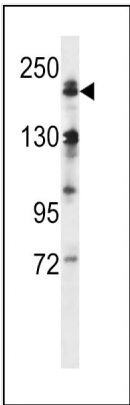
MEKK4; Polyclonal Antibody; MEKK4 Antibody (Center C1081); Mitogen-activated protein kinase kinase kinase 4; MAP three kinase 1; MAPK/ERK kinase kinase 4; MEK kinase 4; MEKK 4; MAP3K4; KIAA0213; MAPKKK4; MTK1; anti-MAP3K4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	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.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	1067-1097
Sequence Length	1608
Applicable Applications for anti-MAP3K4 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



IHC (Immunohiostchemistry)
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. Clinical relevance has not been evaluated.



WB (Western Blot)
MEKK4 Antibody (C1081) western blot analysis in human normal Uterus tissue lysates (35ug/lane).This demonstrates the MEKK4 antibody detected the MEKK4 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-MAP3K4 antibody	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.
Product Categories/Family for anti-MAP3K4 antibody	Neuroscience; Signal Transduction
References	Grucza, R.A., et al. Addict Biol 15(3):346-357(2010) Whitmarsh, A.J., et al. Oncogene 26(22):3172-3184(2007) Aissouni, Y., et al. Biochem. Biophys. Res. Commun. 338(2):808-814(2005) Abell, A.N., et al. J. Biol. Chem. 280(43):35793-35796(2005) Derbyshire, Z.E., et al. Mol. Cell. Biochem. 271 (1-2), 77-90 (2005) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	55956904
NCBI GeneID	4216
NCBI Accession #	NP_005913.2; NP_006715.2
NCBI GenBank Nucleotide #	NM_005922.3
UniProt Accession #	Q9Y6R4; Q5VTT8; Q5VTT9; Q92612; Q9H408; A6H8W0; B7ZLD3; B9EG75
Molecular Weight	181685
NCBI Official Full Name	mitogen-activated protein kinase kinase kinase 4 isoform a
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase kinase 4
NCBI Official Symbol	MAP3K4
NCBI Official Synonym Symbols	MTK1; MEKK4; MEKK 4; MAPKKK4; PRO0412

NCBI Protein Information	mitogen-activated protein kinase kinase kinase 4
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase 4
UniProt Gene Name	MAP3K4
UniProt Synonym Gene Names	KIAA0213; MAPKKK4; MEKK4; MTK1; MEK kinase 4; MEKK 4
UniProt Entry Name	M3K4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mekk4-antibody-immunohistochemistry-western-blot-elisa/286382>