MAP4K4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MAP4K4, Polyclonal Antibody
Full Product Name	MAP4K4 Antibody, HRP Conjugated
Product Gene Name	anti-MAP4K4 antibody
Product Synonym Names	Mitogen-activated protein kinase kinase kinase kinase 4 (EC 2.7.11.1) (HPK/GCK-like kinase HGK) (MAPK/ERK kinase kinase kinase 4) (MEK kinase kinase 4) (MEKKK 4) (Nck-interacting kinase); MAP4K4; HGK KIAA0687 NIK
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Purity/Purification	Antigen Affinity Purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: MAP4K4 (MBS7134671) HRP Conjugated Antibody: MAP4K4 (MBS7134672)
Molecular Weight	142,101 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (102314165..102511152). Location: 2q11.2-q12
OMIM	604666
3D Structure	ModBase 3D Structure for O95819
Immunogen	Recombinant Human Mitogen-activated protein kinase kinase kinase kinase 4 protein (866-1104AA)
Immunogen Species	Human
Conjugate	HRP
Product Categories/Family for anti-MAP4K4 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MAP4K4 antibody	ELISA (EIA)
Related Product Information for anti-MAP4K4 antibody	MBS7134672 is an antibody targeting MAP4K4. Also known as MAP4K4 Antibody, HRP Conjugated. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-MAP4K4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAP4K4. It may not necessarily be applicable to this product.

NCBI GI #	336020358
NCBI GeneID	9448
NCBI Accession #	NP_001229488.1
UniProt Primary Accession #	O95819
UniProt Secondary Accession #	O75172; Q9NST7
UniProt Related Accession #	O95819
GenBank Nucleotide #	NM_001242559.1
NCBI Official Full Name	mitogen-activated protein kinase kinase kinase kinase 4 isoform 4
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase kinase kinase 4
NCBI Official Symbol	MAP4K4
NCBI Official Synonym Symbols	HGK; NIK; MEKKK4; FLH21957
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase kinase 4
UniProt Synonym Protein Names	HPK/GCK-like kinase HGK; MAPK/ERK kinase kinase kinase 4; MEK kinase kinase 4; MEKKK 4; Nck-interacting kinase
Protein Family	Mitogen-activated protein kinase kinase kinase kinase
UniProt Gene Name	MAP4K4
UniProt Synonym Gene Names	HGK; KIAA0687; NIK; MEK kinase kinase 4; MEKKK 4
UniProt Entry Name	M4K4_HUMAN
NCBI Protein Information	mitogen-activated protein kinase kinase kinase kinase 4; MEK kinase kinase 4; nck-interacting kinase; HPK/GCK-like kinase HGK; Ste20 group protein kinase HGK; MAPK/ERK kinase kinase kinase 4; hepatocyte progenitor kinase-like/germinal center kinase-like k
NCBI Summary for MAP4K4	The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase has been shown to specifically activate MAPK8/JNK. The activation of MAPK8 by this kinase is found to be inhibited by the dominant-negative mutants of MAP3K7/TAK1, MAP2K4/MKK4, and MAP2K7/MKK7, which suggests that this kinase may function through the MAP3K7-MAP2K4-MAP2K7 kinase cascade, and mediate the TNF-alpha signaling pathway. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
UniProt Comments for MAP4K4	HGK: a Ser/Thr kinase of the STE20 subfamily. May play a role in the response to environmental stress and cytokines such as TNF-alpha. May interact with the SH3 domain of the adapter proteins Nck. Binds, via its CNH regulatory domain, to the N- terminal region of SPG3A. Upregulated in primary tumors and tumor cell lines. Required for anchorage-independent growth and ras-dependent focus formation in multiple cell lines. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Kinase, protein; EC 2.7.11.1; Protein kinase, STE; Protein kinase, Ser/Thr (non-receptor); STE group; STE20 family; MSN subfamily Chromosomal Location of Human Ortholog: 2q11.2-q12 Cellular Component: cytoplasm Molecular Function: protein serine/threonine kinase activity; protein binding; ATP binding; receptor signaling protein serine/threonine kinase activity Biological Process: microvillus biogenesis; regulation of catalytic activity; regulation of JNK cascade; protein amino acid phosphorylation
Research Articles on MAP4K4	**1.** Common polymorphisms in MAP4K4 are associated with insulin resistance and beta-cell dysfunction, possibly via this gene's role in inflammatory signaling.

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