Recombinant Human MAP4K4

Cat. No. MAP4K4-27603TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 1-328 of Human MAP4K4 with N-terminal proprietary tag expressed in a Baculovirus infected Sf9 cell expression system, MWt 64kDa.
Species	Human
Source	Insect Cells
ProteinLength	328 amino acids
Description	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.
Molecular Weight	64.000kDa inclusive of tags
Biological activity	The specific activity of MAP4K4-27603TH was determined to be 54 nmol/min/mg.
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 10mM Glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	MAP4K4 mitogen-activated protein kinase kinase kinase kinase 4 [Homo sapiens]
Official Symbol	MAP4K4
Synonyms	MAP4K4; mitogen-activated protein kinase kinase kinase kinase 4; FLH21957; hepatocyte progenitor kinase like/germinal center kinase like kinase; HGK; HPK/GCK like kinase; NIK;
Gene ID	9448
mRNA Refseq	NM_001242559
Protein Refseq	NP_001229488
MIM	604666
Uniprot ID	O95819
Chromosome Location	2q11.2-q12
Pathway	Ceramide signaling pathway, organism-specific biosystem; Direct p53 effectors, organism-specific biosystem; EPHB forward signaling, organism-specific biosystem;

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	Insulin Signaling, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem;
Function	ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; small GTPase regulator activity;

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