Recombinant Human MAP3K8

Cat. No. MAP3K8-29126TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 30-397 of Human MAP3K8 with N-terminal proprietary tag expressed in a Baculovirus infected Sf9 cell expression system; 368 amino acids, MW 70kDa.
Species	Human
ProteinLength	30-397 a.a.
Description	This gene is an oncogene that encodes a member of the serine/threonine protein kinase family. The encoded protein localizes to the cytoplasm and can activate both the MAP kinase and JNK kinase pathways. This protein was shown to activate IkappaB kinases, and thus induce the nuclear production of NF-kappaB. This protein was also found to promote the production of TNF-alpha and IL-2 during T lymphocyte activation. This gene may also utilize a downstream in-frame translation start codon, and thus produce an isoform containing a shorter N-terminus. The shorter isoform has been shown to display weaker transforming activity. Alternate splicing results in multiple transcript variants that encode the same protein.
Tissue specificity	Expressed in several normal tissues and human tumor-derived cell lines.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Sodium chloride, 50mM Tris HCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase kinase subfamily.Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	MAP3K8 mitogen-activated protein kinase kinase kinase 8 [Homo sapiens]
Official Symbol	MAP3K8
Synonyms	MAP3K8; mitogen-activated protein kinase kinase kinase 8; COT, ESTF; c COT; EST; MEKK8; Tpl 2;
Gene ID	1326
mRNA Refseq	NM_001244134
Protein Refseq	NP_001231063
MIM	191195
Uniprot ID	P41279
Chromosome Location	10p11.2
Pathway	Adaptive Immune System, organism-specific biosystem; CD28 co-stimulation, organism-specific biosystem; CD28 dependent PI3K/Akt signaling, organism-specific biosystem; Costimulation by the CD28 family, organism-specific biosystem; Cytokine

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	Signaling in Immune system, organism-specific biosystem;
Function	ATP binding; MAP kinase kinase kinase activity; magnesium ion binding; nucleotide binding; protein binding;

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