Recombinant Human Human MAP3K7

Cat. No. MAP3K7-30308TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragments, corresponding to amino acids 1-303 of Human TAK1and 437-504 of Human TAB1, linked by a small peptide , with an N-terminal proprietary tag expressed in a Baculovirus infected Sf9 cell expression system, MWt 74kDa.
Species	Human
ProteinLength	1-303;437-504 a.a.
Description	The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase mediates the signaling transduction induced by TGF beta and morphogenetic protein (BMP), and controls a variety of cell functions including transcription regulation and apoptosis. In response to IL-1, this protein forms a kinase complex including TRAF6, MAP3K7P1/TAB1 and MAP3K7P2/TAB2; this complex is required for the activation of nuclear factor kappa B. This kinase can also activate MAPK8/JNK, MAP2K4/MKK4, and thus plays a role in the cell response to environmental stresses. Four alternatively spliced transcript variants encoding distinct isoforms have been reported.
Biological activity	The Specific activity of MAP3K7-30308TH was determined to be 10 nmol/min/mg.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 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.

GENE INFORMATION

Gene Name	MAP3K7 mitogen-activated protein kinase kinase kinase 7 [Homo sapiens]
Official Symbol	MAP3K7
Synonyms	MAP3K7; mitogen-activated protein kinase kinase kinase 7; TAK1; MEKK7;
Gene ID	6885
mRNA Refseq	NM_003188
Protein Refseq	NP_003179
MIM	602614
Uniprot ID	O43318
Chromosome Location	6q15
Pathway	Activated TLR4 signalling, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem;
Function	ATP binding; MAP kinase kinase activity; MAP kinase kinase kinase activity; kinase activity; magnesium ion binding;

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