

Recombinant Human Human MAP3K7

Cat. No. TAB1-30309TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragments, corresponding to amino acids 1-303 of Human TAK1 and 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
Protein Length	1-303;437-504 a.a.
Description	The protein encoded by this gene was identified as a regulator of the MAP kinase kinase kinase MAP3K7/TAK1, which is known to mediate various intracellular signaling pathways, such as those induced by TGF beta, interleukin 1, and WNT-1. This protein interacts and thus activates TAK1 kinase. It has been shown that the C-terminal portion of this protein is sufficient for binding and activation of TAK1, while a portion of the N-terminus acts as a dominant-negative inhibitor of TGF beta, suggesting that this protein may function as a mediator between TGF beta receptors and TAK1. This protein can also interact with and activate the mitogen-activated protein kinase 14 (MAPK14/p38alpha), and thus represents an alternative activation pathway, in addition to the MAPKK pathways, which contributes to the biological responses of MAPK14 to various stimuli. Alternatively spliced transcript variants encoding distinct isoforms have been reported.
Biological activity	The Specific activity of TAB1-30309TH was determined to be 10 nmol/min/mg.
Form	Liquid

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Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 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	TAB1 TGF-beta activated kinase 1/MAP3K7 binding protein 1 [Homo sapiens]
Official Symbol	TAB1
Synonyms	TAB1; TGF-beta activated kinase 1/MAP3K7 binding protein 1; MAP3K7IP1, mitogen activated protein kinase kinase kinase 7 interacting protein 1; TGF-beta-activated kinase 1 and MAP3K7-binding protein 1; mitogen activated protein kinase kinase kinase 7 inte
Gene ID	10454
mRNA Refseq	NM_006116
Protein Refseq	NP_006107
MIM	602615
Uniprot ID	Q15750
Chromosome Location	22q13.1
Pathway	Activated TLR4 signalling, organism-specific biosystem; Cytokine Signaling in

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Immune system, organism-specific biosystem; Herpes simplex infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem; IL1-mediated signaling events, organism-specific biosystem;

Function

catalytic activity; enzyme activator activity; kinase activator activity; protein binding;

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