

## 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Storage buffer</b>	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
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	TAB1 TGF-beta activated kinase 1/MAP3K7 binding protein 1 [ Homo sapiens ]
<b>Official Symbol</b>	TAB1
<b>Synonyms</b>	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 7 inte
<b>Gene ID</b>	10454
<b>mRNA Refseq</b>	NM_006116
<b>Protein Refseq</b>	NP_006107
<b>MIM</b>	602615
<b>Uniprot ID</b>	Q15750
<b>Chromosome Location</b>	22q13.1
<b>Pathway</b>	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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