

## Recombinant Human TAK1-TAB1, GST-tagged, Active

Cat. No. TAK1-TAB1-440H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human proteins TAK1 (1-303) and TAB1 (437-end), linked by a small peptide (DFGGGGG), were expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. MW = 74 kDa.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	1-303;437-end a.a.
<b>Description</b>	TAK1 is a serine/threonine protein kinase that mediates signaling by TGFβ and morphogenetic protein (BMP). In response to IL-1, TAK1 forms a kinase complex with TAB1 and this complex is required for the activation of nuclear factor kappa B (NfκB). TAK1 can also activate MAPK8/JNK and MAP2K4/MKK4 and thus play a role in the cell response to environmental stress. Tak1 is essential for thymocyte development and activation and deletion of TAK1 prevents maturation of single-positive thymocytes displaying CD4 or CD8. Thymocytes lacking TAK1 fail to activate NfκB and JNK and are prone to apoptosis upon stimulation.
<b>Sequence</b>	TAK1 (1-303) and TAB1 (437-end)), linked by a small peptide (DFGGGGG).
<b>Applications</b>	Kinase Assay, Western Blot.
<b>Storage And Stability</b>	Store product at -70°C. For optimal storage, aliquot target into smaller quantities

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after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

## GENE INFORMATION

**Gene Name** MAP3K7 mitogen-activated protein kinase kinase kinase 7 [ Homo sapiens ],MAP3K7IP1 mitogen-activated protein kinase kinase kinase 7 interacting protein 1 [ Homo sapiens ]

**Synonyms** MAP3K7; mitogen-activated protein kinase kinase kinase 7; TAK1; MEKK7; TGF1a; TGF-beta activated kinase 1; transforming growth factor-beta-activated kinase 1; EC 2.7.11.25; OTTHUMP00000016870; OTTHUMP00000016871; OTTHUMP00000016872; OTTHUMP00000016873; TGF-beta-activated kinase 1; TAB1; 3"-Tab1; MGC57664; MAP3K7IP1; mitogen-activated protein kinase kinase kinase 7 interacting protein 1; TAK1-binding protein 1; transforming growth factor beta-activated kinase-binding protein 1; Mitogen-activated protein kinase kinase 7-interacting protein 1; TGF-beta-activated kinase 1-binding protein 1

**Gene ID** 688510454

**mRNA Refseq** NM\_003188NM\_006116

**Protein Refseq** NP\_003179NP\_006107

**MIM** 602614602615

**UniProt ID** O43318Q15750

**Chromosome Location** 6q16.1-q16.322q13.1

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**Pathway**

Adherens junction; MAPK signaling pathway; NOD-like receptor signaling pathway; RIG-I-like receptor signaling pathway; T cell receptor signaling pathway; Toll-like receptor signaling pathway; Wnt signaling pathway

**Function**

ATP binding; MAP kinase kinase activity; MAP kinase kinase kinase activity; magnesium ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein tyrosine kinase activity; transferase activity; catalytic activity; kinase activator activity

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