

Recombinant Human TAK1-TAB1, GST-tagged, Active

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Sf9 Cells
ProteinLength	1-303;437-end a.a.
Description	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.
Sequence	TAK1 (1-303) and TAB1 (437-end)), linked by a small peptide (DFGGGGG).
Applications	Kinase Assay, Western Blot.
Storage And Stability	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 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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