

Recombinant Human TAB1, His-tagged

Cat. No. TAB1-30837TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 4-504 of Human TAB1 with N terminal His tag; Predicted MWt 55 kDa.
Species	Human
Source	E.coli
ProteinLength	4-504 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.
Conjugation	HIS
Tissue specificity	Ubiquitous.

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Form	Lyophilised:Reconstitute with 108 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	QRRSLLQSEQQPSWTDDLPLCHLSGVGSASNRSYSADGKG TESHPPEDSWLKFR SENNCFLYGVFNGYDGNRVTNFVA QRLSAELLGQLNAEHAADVRRVLLQAFDV VERSFLE SIDDALAEKASLQSQLPEGVPQHQLPPQYQKILERLKT LEREISGGAMAV VAVLLNNKLYVANVGVTNRALLCKSTVDG LQVTQLNVDHTTENEDELFRLSQLGLDA GKIKQVGIIC GQESTRRIGDYKVKYGYTDIDLLSAAKSKPIIAEPEIH GAQPLDGVGTGF LVLMSGLYKALEAAHGPQGQANQEIAA MIDTEFAKQTSLEDAVAQAVVDRVKRIHSDT FASGGERA RFCPRHEDMTLLVRNFGYPLGEMSQPTSPAPAAGGRVYP VSVYPYS SAQSTSKTSVTLSLVMPSQGMVNGAHSASTL DEATPTLTNQSPTLTQSTNHTQ SSSSSSDGGFLFRSR PAHSLPPGEDGRVEPYVDFAEFYRLWSVDHGEQSVVTA P
Sequence Similarities	Contains 1 PP2C-like domain.
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 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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