

Recombinant Full Length Human TAB1 Protein, C-Flag-tagged

Cat. No. TAB1-1772HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TAB1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	54.5 kDa
AA Sequence	MAAQRRSLLQSEQQPSWTDDLPLCHLSGVGSASNRSYSADGKGTESHPPEDSWL

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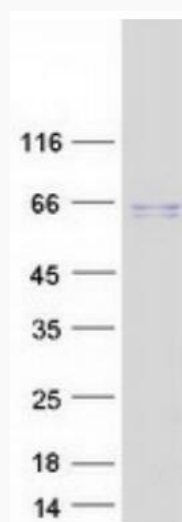
 45-1 Ramsey Road, Shirley, NY 11967, USA

KFRSENNCFLYGVFNG YDGNRVTNFVAQRLSAELLLGQLNAEHAEADVRRVLLQAF
 DVVERSFLESIDDALEKASLQSQLPEGVP QHQLPPQYQKILERLKTLEISGGAM
 AVVAVLLNNKLYVANVG TNRALLCKSTVDGLQVTQLNVDHTTE NEDELFRLSQLGL
 DAGKIKQVGIICGQESTRRIGDYKVKYGYTDIDLLSAAKSKPIIAEPEIHGAQPLDG VT
 GFLVLMSEGLYKALEAAHGPGQANQEIAAMIDTEFAKQTS L DAVAQAVVDRVKRIHS
 DTFASGGERAR FCPRHEDMTLLVRNFGYPLGEMSQPTSPAPAAGGRVYPVSVPY
 SSAQSTSKTSVTLSLVMP SQGMVNG AHSASTLDEATPTLTNQSPTLT LQSTNHT
 QSSSSSDGGLFRSRPAHSLPPGEDGRVEPYVDFAEFYRL WSVDHGEQSVVTAP
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	MAPK signaling pathway, NOD-like receptor signaling pathway, Toll-like receptor signaling pathway
Full Length	Full L.

GENE INFORMATION

Gene Name	TAB1 TGF-beta activated kinase 1 (MAP3K7) binding protein 1 [Homo sapiens (human)]
Official Symbol	TAB1
Synonyms	3'-Tab1; MAP3K7IP1
Gene ID	10454
mRNA Refseq	NM_006116.3
Protein Refseq	NP_006107.1
MIM	602615
UniProt ID	Q15750



Coomassie blue staining of purified TAB1 protein.

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