

## Recombinant Human TAB1 Protein, MYC/DDK-tagged

Cat. No. TAB1-22H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant protein of human mitogen-activated protein kinase kinase kinase 7 interacting protein 1 (MAP3K7IP1), transcript variant alpha with C-MYC/DDK tag was expressed in HEK293T.

**Species** Human

**Source** HEK293

**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.

**Molecular Mass** 54.5 kDa

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

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<b>Storage</b>	Store at –80 centigrade. Avoid repeated freeze-thaw cycles. Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	TAB1 TGF-beta activated kinase 1 (MAP3K7) binding protein 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	TAB1
<b>Synonyms</b>	TAB1; TGF-beta activated kinase 1 (MAP3K7) binding protein 1; 3'-Tab1; MAP3K7IP1; TGF-beta-activated kinase 1 and MAP3K7-binding protein 1; TAK1-binding protein 1; mitogen-activated protein kinase kinase kinase 7-interacting protein 1; transforming growth factor beta-activated kinase-binding protein 1
<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

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