

## Product datasheet for PH308522

### TAB1 (NM\_006116) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	TAB1 MS Standard C13 and N15-labeled recombinant protein (NP_006107)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208522
Predicted MW:	54.6 kDa
Protein Sequence:	>RC208522 protein sequence Red=Cloning site Green=Tags(s)

MAAQRRLQSEQQPSWTDDLPLCHLSGVGSASNRSYSADGKGTESHPEDSWLKFRSENNCFLYGVFNG  
YDGNRVTNFVAQRLSAELLLGQLNAEHAADVRRVLLQAFDVVERSFLSIDDALAEKASLQSQLPEGVP  
QHQLPPQYQKILERLKTLEIEISGGAMAVVAVLLNNKLYANVGTNRALLCKSTVDGLQVTQLNVDHTTE  
NEDELFRLSQLGLDAGKIKQVGIICGQESTRRIGDYKVKYGYTDIDLLSAKSKPIIAEPEIHGAQPLDG  
VTGFLVLMSEGLYKALEAAHGPGQANQEAAMIDTEFAKQTSLDAVAQAVVDRVKRIHSDTFASGGERAR  
FCPRHEDMTLLVRNFGYPLGEMSQPTSPAPAAGGRVYPVSVPYSSAQSTSKTSVTLVMPSSQGMVNG  
AHSASTLDEATPTLTNQSPPTLTLQSTNHTQSSSSSDGGLFRSRPAHSLPPGEDGRVEPYVDFAEFYRL  
WSVDHGEQSVVTAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_006107</u>
RefSeq Size:	3240
RefSeq ORF:	1512



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**Synonyms:** 3'-Tab1; MAP3K7IP1

**Locus ID:** 10454

**UniProt ID:** [Q15750](#), [A8K6K3](#)

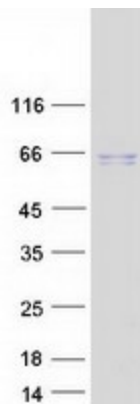
**Cytogenetics:** 22q13.1

**Summary:** 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. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** MAPK signaling pathway, NOD-like receptor signaling pathway, Toll-like receptor signaling pathway

### Product images:



Coomassie blue staining of purified TAB1 protein (Cat# [TP308522]). The protein was produced from HEK293T cells transfected with TAB1 cDNA clone (Cat# [RC208522]) using MegaTran 2.0 (Cat# [TT210002]).