Phospho-TAB1 (Ser438) Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	TAB1, Blocking Peptide
Full Product Name	Phospho-TAB1 (Ser438) Blocking Peptide
Product Gene Name	TAB1 blocking peptide
Product Synonym Names	2310012M03Rik; 3'-Tab1; MAP3K7IP 1; MAP3K7IP1; MGC57664; Mitogen activated protein kinase kinase kinase 7 interacting protein 1; Mitogen-activated protein kinase kinase kinase 7-interacting protein 1; TAB 1; TAB1; TAB1_HUMAN; TAK1 binding protein 1; TAK1-binding protein 1; TGF beta activated kinase 1 binding protein 1; TGF-beta activated kinase 1/MAP3K7 binding protein 1; TGF-beta-activated kinase 1 and MAP3K7-binding protein 1; TGF-beta-activated kinase 1-binding protein 1; Transforming growth factor beta activated kinase binding protein 1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	TAB1 (Ser438) peptide (MBS9619287) is used for blocking the activity of TAB1 (Ser438) antibody (MBS9614325)
Molecular Weight	49,917 Da
OMIM	602615
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for TAB1 blocking peptide	Blocking/Control
Related Product Information for TAB1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of TAB1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TAB1 purchase	MBS9619287 is a blocking peptide targeting TAB1. Also known as Phospho-TAB1 (Ser438) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TAB1. It may not necessarily be applicable to this product.

NCBI GI #	5174703
NCBI GeneID	10454
NCBI Accession #	NP_006107

UniProt Primary Accession #	Q15750
UniProt Secondary Accession #	Q2PP09; Q8IZW2
UniProt Related Accession #	Q15750
GenBank Nucleotide #	NM_006116.2
NCBI Official Full Name	TGF-beta-activated kinase 1 and MAP3K7-binding protein 1 isoform alpha
NCBI Official Synonym Full Names	TGF-beta activated kinase 1/MAP3K7 binding protein 1
NCBI Official Symbol	TAB1
NCBI Official Synonym Symbols	3'-Tab1; MAP3K7IP1
UniProt Protein Name	TGF-beta-activated kinase 1 and MAP3K7-binding protein 1
UniProt Synonym Protein Names	Mitogen-activated protein kinase kinase kinase 7-interacting protein 1; TGF-beta-activated kinase 1-binding protein 1; TAK1-binding protein 1
Protein Family	TGF-beta-activated kinase 1 and MAP3K7-binding protein
UniProt Gene Name	TAB1
UniProt Synonym Gene Names	MAP3K7IP1; TAK1-binding protein 1
UniProt Entry Name	TAB1_HUMAN
NCBI Protein Information	TGF-beta-activated kinase 1 and MAP3K7-binding 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
NCBI Summary for TAB1	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]
UniProt Comments for TAB1	TAB1: May be an important signaling intermediate between TGFB receptors and MAP3K7/TAK1. May play an important role in mammalian embryogenesis. Interacts with XIAP and BIRC7. Interacts with TRAF6 and MAP3K7; during IL-1 signaling. Identified in the TRIKA2 complex composed of MAP3K7, TAB1 and TAB2. Ubiquitous. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Activator Chromosomal Location of Human Ortholog: 22q13.1 Cellular Component: nucleoplasm; protein complex; cytoplasm; endosome membrane; cytosol Molecular Function: protein binding; mitogen-activated protein kinase p38 binding; enzyme activator activity; kinase activator activity; protein complex binding; catalytic activity Biological Process: heart morphogenesis; I-kappaB kinase/NF-kappaB cascade; in utero embryonic development; activation of MAPK activity; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; toll-like receptor 3 signaling pathway; activation of NF-kappaB transcription factor; toll-like receptor 2 signaling pathway; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; transforming growth factor beta receptor signaling pathway; toll-like receptor signaling pathway; activation of MAPKKK activity; innate immune response; JNK cascade; toll-like receptor 9 signaling pathway; toll-like receptor 4 signaling pathway; lung development
Research Articles on TAB1	**1.** Data indicate that mitogen-activated protein kinase (MAPK) p38 activation is triggered by AMP-activated protein kinases (AMPK) and mediated by TAB1 protein.

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