Map3k7ip1 Antibody Blocking Peptide

PRODUCT OVERVIEW

Product Name	MAP3K7IP1 (TAB1), Blocking Peptide
Full Product Name	MAP3K7IP1 Antibody Blocking peptide
Product Gene Name	TAB1 blocking peptide
Product Synonym Gene Name	MAP3K7IP1
Product Synonym Names	TGF-beta-activated kinase 1 and MAP3K7-binding protein 1; Mitogen-activated protein kinase kinase kinase 7-interacting protein 1; TGF-beta-activated kinase 1-binding protein 1; TAK1-binding protein 1; TAB1; MAP3K7IP1
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 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the region of human MAP3K7IP1-pS438. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
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	MAP3K7IP1 peptide (MBS9226390) is used for blocking the activity of MAP3K7IP1 antibody (MBS9209282)
Molecular Weight	49,917 Da
OMIM	602615
Tissue Location	Ubiquitous.
Related Product Information for TAB1 blocking peptide	May be an important signaling intermediate between TGFB receptors and MAP3K7/TAK1. May play an important role in mammalian embryogenesis.
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	MBS9226390 is a blocking peptide targeting TAB1. Also known as MAP3K7IP1 Antibody 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 #	10720303
NCBI GeneID	10454
NCBI Accession #	Q15750.1
UniProt Primary Accession #	Q15750
UniProt Secondary Accession #	Q2PP09; Q8IZW2
UniProt Related Accession #	Q15750
NCBI Official Full Name	TGF-beta-activated kinase 1 and MAP3K7-binding protein 1
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
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: Activator; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 22q13.1 Cellular Component: cytoplasm; cytosol; endosome membrane; nucleoplasm Molecular Function: enzyme activator activity; protein binding Biological Process: activation of MAPK activity; activation of NF-kappaB transcription factor; I-kappaB kinase/NF-kappaB cascade; JNK cascade; MyD88-dependent toll-like receptor signaling pathway; stimulatory C-type lectin receptor signaling pathway
Research Articles on TAB1	**1.** miR-29a repressed TAB1-mediated TIMP-1 production in dermal fibroblasts, demonstrating that miR-29a may be a therapeutic target in SSc.
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