TAB2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	TAB2, Blocking Peptide
Full Product Name	TAB2 Blocking Peptide
Product Gene Name	TAB2 blocking peptide
Product Synonym Names	CHTD2; FLJ21885; KIAA0733; MAP3K7IP2; Mitogen activated protein kinase kinase kinase 7 interacting protein 2; Mitogen-activated protein kinase kinase kinase 7-interacting protein 2; OTTHUMP00000040125; TAB 2; TAB-2; Tab2; TAB2_HUMAN; TAK1 binding protein 2; TAK1-binding protein 2; TGF beta activated kinase 1/MAP3K7 binding protein 2; TGF-beta-activated kinase 1 and MAP3K7-binding protein 2; TGF-beta-activated kinase 1-binding protein 2
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	TAB2 peptide (MBS9622601) is used for blocking the activity of TAB2 antibody (MBS9603883)
Molecular Weight	58,131 Da
OMIM	gene 614980
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 TAB2 blocking peptide	Blocking/Control
Related Product Information for TAB2 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 TAB2 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 TAB2 purchase	MBS9622601 is a blocking peptide targeting TAB2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TAB2. It may not necessarily be applicable to this product.

NCBI GI #	635372945
NCBI GeneID	23118
NCBI Accession #	NP_001278963.1
UniProt Primary Accession #	Q9NYJ8

UniProt Secondary Accession #	O94838; Q6I9W8; Q76N06; Q9UFP7; B2RCC4; E1P5A0
UniProt Related Accession #	Q9NYJ8
GenBank Nucleotide #	NM_001292034.2
NCBI Official Full Name	TGF-beta-activated kinase 1 and MAP3K7-binding protein 2 isoform a
NCBI Official Synonym Full Names	TGF-beta activated kinase 1/MAP3K7 binding protein 2
NCBI Official Symbol	TAB2
NCBI Official Synonym Symbols	CHTD2; TAB-2; MAP3K7IP2
UniProt Protein Name	TGF-beta-activated kinase 1 and MAP3K7-binding protein 2
UniProt Synonym Protein Names	Mitogen-activated protein kinase kinase kinase 7-interacting protein 2; TAK1-binding protein 2; TAB-2; TGF-beta-activated kinase 1-binding protein 2
Protein Family	TGF-beta-activated kinase 1 and MAP3K7-binding protein
UniProt Gene Name	TAB2
UniProt Synonym Gene Names	KIAA0733; MAP3K7IP2; TAB-2
UniProt Entry Name	TAB2_HUMAN
NCBI Protein Information	TGF-beta-activated kinase 1 and MAP3K7-binding protein 2
UniProt Comments for TAB2	TAB2: Adapter linking MAP3K7/TAK1 and TRAF6. Promotes MAP3K7 activation in the IL1 signaling pathway. The binding of 'Lys-63'- linked polyubiquitin chains to TAB2 promotes autophosphorylation of MAP3K7 at 'Thr-187'. Involved in heart development. Interacts with MAP3K7 and TRAF6. Identified in the TRIKA2 complex composed of MAP3K7, TAB1 and TAB2. Binds 'Lys-63'-linked polyubiquitin chains. Interacts with NCOR1 and HDAC3 to form a ternary complex. Interacts (via C-terminal) with NUMBL (via PTB domain). Interacts (via the C-terminus) with WDR34 (via WD domains). Interacts with RBCK1. Widely expressed. In the embryo, expressed in the ventricular trabeculae, endothelial cells of the conotruncal cushions of the outflow tract and in the endothelial cells lining the developing aortic valves. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 6q25.1 Cellular Component: plasma membrane; endosome membrane; cytosol Molecular Function: protein binding; zinc ion binding Biological Process: I-kappaB kinase/NF-kappaB cascade; positive regulation of I-kappaB kinase/NF-kappaB cascade; activation of MAPK activity; heart development; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; toll-like receptor 3 signaling pathway; T cell receptor signaling pathway; toll-like receptor 2 signaling pathway; toll-like receptor 10 signaling pathway; activation of NF-kappaB transcription factor; MyD88-dependent toll-like receptor signaling pathway; toll-like receptor 5 signaling pathway; positive regulation of protein kinase activity; toll-like receptor signaling pathway; JNK cascade; innate immune response; toll-like receptor 9 signaling pathway; toll-like receptor 4 signaling pathway Disease: Congenital Heart Defects, Multiple Types, 2
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