

TAB2 Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP21381b

Specification

TAB2 Blocking Peptide (C-term) - Product Information

Primary Accession [Q9NYJ8](#)

TAB2 Blocking Peptide (C-term) - Additional Information

Gene ID 23118

Other Names

TGF-beta-activated kinase 1 and MAP3K7-binding protein 2, Mitogen-activated protein kinase kinase kinase 7-interacting protein 2, TAK1-binding protein 2, TAB-2, TGF-beta-activated kinase 1-binding protein 2, TAB2, KIAA0733, MAP3K7IP2

Target/Specificity

The synthetic peptide sequence is selected from aa 646-660 of HUMAN TAB2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TAB2 Blocking Peptide (C-term) - Protein Information

Name TAB2 {ECO:0000303|PubMed:10882101, ECO:0000312|HGNC:HGNC:17075}

Function

Adapter required to activate the JNK and NF-kappa-B signaling pathways through the specific recognition of 'Lys-63'-linked polyubiquitin chains by its RanBP2-type zinc finger (NZF) (PubMed:10882101, PubMed:11460167, PubMed:15327770, PubMed:22158122, PubMed:27746020, PubMed:33184450, PubMed:36681779). Acts as an adapter linking MAP3K7/TAK1 and TRAF6 to 'Lys-63'-linked polyubiquitin chains (PubMed:10882101, PubMed:11460167, PubMed:15327770, PubMed:22158122, PubMed:27746020, PubMed:33184450, PubMed:36681779).

[22158122](http://www.uniprot.org/citations/22158122), PubMed: [27746020](http://www.uniprot.org/citations/27746020)). The RanBP2-type zinc finger (NZF) specifically recognizes Lys-63'-linked polyubiquitin chains unanchored or anchored to the substrate proteins such as RIPK1/RIP1 and RIPK2: this acts as a scaffold to organize a large signaling complex to promote autophosphorylation of MAP3K7/TAK1, and subsequent activation of I- kappa-B-kinase (IKK) core complex by MAP3K7/TAK1 (PubMed: [15327770](http://www.uniprot.org/citations/15327770), PubMed: [18079694](http://www.uniprot.org/citations/18079694), PubMed: [22158122](http://www.uniprot.org/citations/22158122)). Also recognizes and binds Lys-63'- linked polyubiquitin chains of heterotypic 'Lys-63'-'Lys-48'-linked branched ubiquitin chains (PubMed: [27746020](http://www.uniprot.org/citations/27746020)). Regulates the IL1-mediated translocation of NCOR1 out of the nucleus (By similarity). Involved in heart development (PubMed: [20493459](http://www.uniprot.org/citations/20493459)).

Cellular Location

Membrane; Peripheral membrane protein. Endosome membrane; Peripheral membrane protein. Lysosome membrane; Peripheral membrane protein. Cytoplasm, cytosol. Note=Following IL1 stimulation, translocation occurs from the membrane to cytosol (PubMed:10882101) Interaction with TRIM38 promotes translocation from cytosol to endosome and lysosome (PubMed:24434549).

Tissue Location

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.

TAB2 Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

TAB2 Blocking Peptide (C-term) - Images

TAB2 Blocking Peptide (C-term) - Background

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.

TAB2 Blocking Peptide (C-term) - References

Takaesu G.,et al.Mol. Cell 5:649-658(2000).
Nagase T.,et al.DNA Res. 5:277-286(1998).
Nakajima D.,et al.DNA Res. 9:99-106(2002).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.