

**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:<a href="http://www.uniprot.org/citations/10882101" target="\_blank">10882101</a>, PubMed:<a href="http://www.uniprot.org/citations/11460167" target="\_blank">11460167</a>, PubMed:<a href="http://www.uniprot.org/citations/15327770" target="\_blank">15327770</a>, PubMed:<a href="http://www.uniprot.org/citations/22158122" target="\_blank">22158122</a>, PubMed:<a href="http://www.uniprot.org/citations/33184450" target="\_blank">33184450</a>, PubMed:<a href="http://www.uniprot.org/citations/36681779" target="\_blank">36681779</a>). Acts as an adapter linking MAP3K7/TAK1 and TRAF6 to 'Lys-63'-linked polyubiquitin chains (PubMed:<a href="http://www.uniprot.org/citations/10882101" target="\_blank">10882101</a>, PubMed:<a href="http://www.uniprot.org/citations/11460167" target="\_blank">11460167</a>, PubMed:<a href="http://www.uniprot.org/citations/15327770" target="\_blank">15327770</a>, PubMed:<a href="http://www.uniprot.org/citations/22158122" target="\_blank">22158122</a>). 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:<a href="http://www.uniprot.org/citations/15327770" target="\_blank">15327770</a>, PubMed:<a href="http://www.uniprot.org/citations/18079694" target="\_blank">18079694</a>, PubMed:<a href="http://www.uniprot.org/citations/22158122" target="\_blank">22158122</a>). Regulates the IL1-mediated translocation of NCOR1 out of the nucleus (By similarity). Involved in heart development (PubMed:<a href="http://www.uniprot.org/citations/20493459" target="\_blank">20493459</a>).

#### **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.