

**Beclin1-BH3 Domain Antibody Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8653a****Specification**

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**Beclin1-BH3 Domain Antibody Blocking Peptide - Product Information**Primary Accession [Q14457](#)**Beclin1-BH3 Domain Antibody Blocking Peptide - Additional Information****Gene ID** 8678**Other Names**

Beclin-1, Coiled-coil myosin-like BCL2-interacting protein, Protein GT197, BECN1, GT197

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8653a](/products/AP8653a) was selected from the region of human Beclin1-BH3 Domain. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**Beclin1-BH3 Domain Antibody Blocking Peptide - Protein Information****Name** BECN1**Synonyms** GT197**Function**

Plays a central role in autophagy (PubMed: [18570871](http://www.uniprot.org/citations/18570871), PubMed: [21358617](http://www.uniprot.org/citations/21358617), PubMed: [23184933](http://www.uniprot.org/citations/23184933), PubMed: [23974797](http://www.uniprot.org/citations/23974797), PubMed: [25484083](http://www.uniprot.org/citations/25484083), PubMed: [28445460](http://www.uniprot.org/citations/28445460), PubMed: [37776275](http://www.uniprot.org/citations/37776275)). Acts as a core subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate; different complex forms are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes

and PI3KC3-C2 in maturation of autophagosomes and endocytosis. Involved in regulation of degradative endocytic trafficking and required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2 (PubMed:<a href="http://www.uniprot.org/citations/20208530" target="\_blank">20208530</a>, PubMed:<a href="http://www.uniprot.org/citations/20643123" target="\_blank">20643123</a>, PubMed:<a href="http://www.uniprot.org/citations/23974797" target="\_blank">23974797</a>, PubMed:<a href="http://www.uniprot.org/citations/26783301" target="\_blank">26783301</a>). Essential for the formation of PI3KC3-C2 but not PI3KC3-C1 PI3K complex forms. Involved in endocytosis (PubMed:<a href="http://www.uniprot.org/citations/25275521" target="\_blank">25275521</a>). May play a role in antiviral host defense.

#### **Cellular Location**

Cytoplasm. Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein. Endosome membrane; Peripheral membrane protein. Endoplasmic reticulum membrane; Peripheral membrane protein. Mitochondrion membrane; Peripheral membrane protein. Endosome {ECO:0000250|UniProtKB:O88597} Cytoplasmic vesicle, autophagosome. Note=Interaction with ATG14 promotes translocation to autophagosomes. Expressed in dendrites and cell bodies of cerebellar Purkinje cells (By similarity) {ECO:0000250|UniProtKB:O88597, ECO:0000269|PubMed:19050071} [Beclin-1-C 37 kDa]: Mitochondrion {ECO:0000250|UniProtKB:O88597}

#### **Tissue Location**

Ubiquitous.

### **Beclin1-BH3 Domain Antibody Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **Beclin1-BH3 Domain Antibody Blocking Peptide - Images**

### **Beclin1-BH3 Domain Antibody Blocking Peptide - Background**

Beclin1-BH3 plays a central role in autophagy (By similarity). It may play a role in antiviral host defense. Protects against infection by a neurovirulent strain of Sindbis virus.

### **Beclin1-BH3 Domain Antibody Blocking Peptide - References**

Won,K.Y., et.al., Hum. Pathol. 41 (1), 107-112 (2010)Oberstein,A., et.al., J. Biol. Chem. 282 (17), 13123-13132 (2007)