

Beclin 1 Antibody Blocking peptide
Synthetic peptide
Catalog # BP13795a**Specification**

Beclin 1 Antibody Blocking peptide - Product InformationPrimary Accession [Q14457](#)**Beclin 1 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 AP13795a was selected from the Beclin 1 protein. 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.

Beclin 1 Antibody Blocking peptide - Protein Information**Name** BECN1**Synonyms** GT197**Function**

Plays a central role in autophagy (PubMed: 18570871, PubMed: 21358617, PubMed: 23184933, PubMed: 23974797, PubMed: 28445460, PubMed: 25484083, PubMed: 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:20643123, PubMed:20208530, PubMed:23974797, PubMed:26783301). Essential for the formation of PI3KC3-C2 but not PI3KC3-C1 PI3K complex forms. Involved in endocytosis (PubMed:25275521). Protects against infection by a neurovirulent strain of Sindbis virus (PubMed:9765397). 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.

Beclin 1 Antibody Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Beclin 1 Antibody Blocking peptide - Images

Beclin 1 Antibody Blocking peptide - Background

Beclin-1 participates in the regulation of autophagy and has an important role in development, tumorigenesis, and neurodegeneration (Zhong et al., 2009 [PubMed 19270693]). [supplied by OMIM].

Beclin 1 Antibody Blocking peptide - References

Koukourakis, M.I., et al. Br. J. Cancer 103(8):1209-1214(2010) Jaeger, P.A., et al. Arch. Neurol. 67(10):1181-1184(2010) Metzger, S., et al. Hum. Genet. 128(4):453-459(2010) Oberstein, A., et al. J. Biol. Chem. 282(17):13123-13132(2007) Furuya, N., et al. Autophagy 1(1):46-52(2005)