

**Beclin 1 Antibody**  
**Rabbit mAb**  
**Catalog # AP90155****Specification**

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**Beclin 1 Antibody - Product Information**

Application	<b>WB, IHC, ICC, IP</b>
Primary Accession	<a href="#">O14457</a>
Reactivity	<b>Rat</b>
Clonality	<b>Monoclonal</b>

**Other Names**

ATG6; ATG6 autophagy related 6 homolog; Bcl-2-interacting protein beclin; Beclin 1 autophagy related;Beclin-1;Beclin1; BECN1; Protein GT197; VPS30;

Isotype	<b>Rabbit IgG</b>
Host	<b>Rabbit</b>
Calculated MW	<b>51896 Da</b>

**Beclin 1 Antibody - Additional Information**

Purification	<b>Affinity-chromatography</b>
Immunogen	<b>A synthesized peptide derived from human Beclin 1</b>
Description	<b>Plays a central role in autophagy. Required for the abscission step in cytokinesis. May play a role in antiviral host defense. Protects against infection by a neurovirulent strain of Sindbis virus.</b>
Storage Condition and Buffer	<b>Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.</b>

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

Plays a central role in autophagy (PubMed: <a href="http://www.uniprot.org/citations/18570871" target="\_blank">18570871</a>, PubMed: <a href="http://www.uniprot.org/citations/21358617" target="\_blank">21358617</a>, PubMed: <a href="http://www.uniprot.org/citations/23184933" target="\_blank">23184933</a>, PubMed: <a href="http://www.uniprot.org/citations/23974797" target="\_blank">23974797</a>, PubMed: <a href="http://www.uniprot.org/citations/25484083" target="\_blank">25484083</a>, PubMed: <a href="http://www.uniprot.org/citations/28445460" target="\_blank">28445460</a>, PubMed: <a href="http://www.uniprot.org/citations/37776275" target="\_blank">37776275</a>). 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

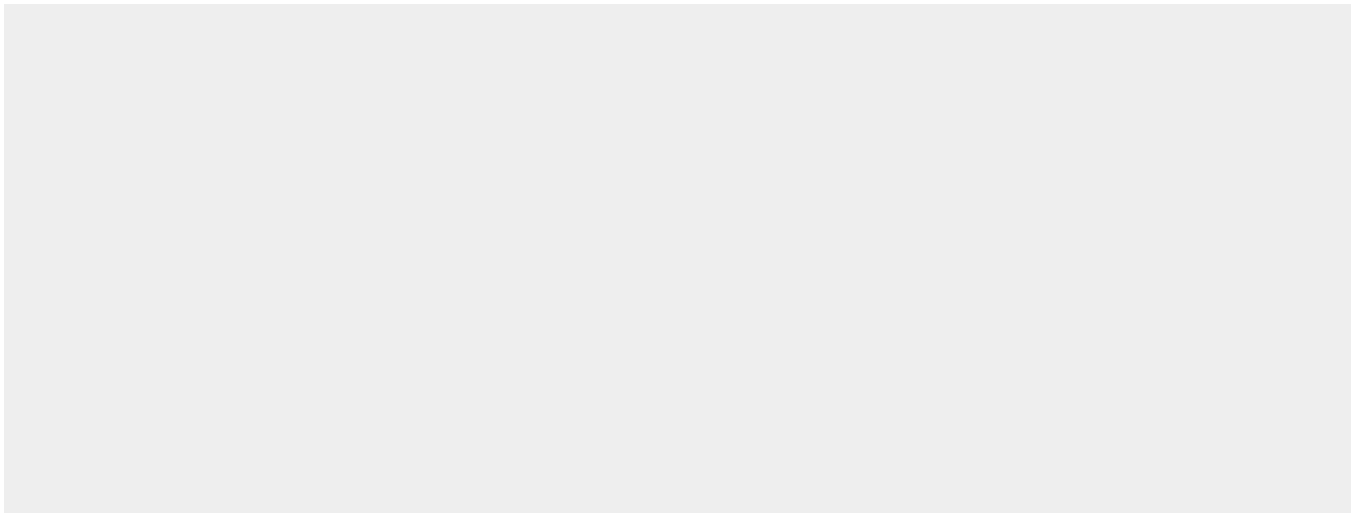
Ubiquitous.

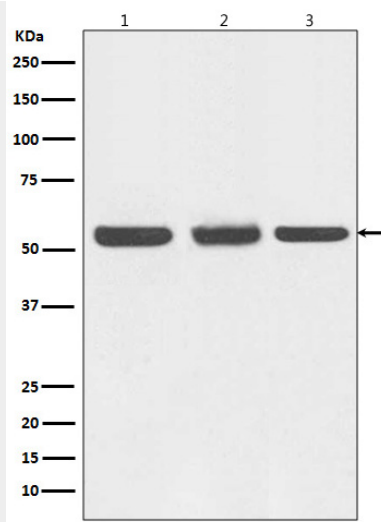
#### Beclin 1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Beclin 1 Antibody - Images





Western blot analysis of Beclin 1 expression in (1) HEK293 cell lysate; (2) NIH/3T3 cell lysate; (3) C6 cell lysate.