

**Anti-Beclin-1 Antibody**  
Rabbit polyclonal antibody to Beclin-1  
Catalog # AP61539

### Specification

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#### Anti-Beclin-1 Antibody - Product Information

Application	WB
Primary Accession	<a href="#">O14457</a>
Other Accession	<a href="#">O88597</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51896

#### Anti-Beclin-1 Antibody - Additional Information

Gene ID 8678

#### Other Names

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

#### Target/Specificity

Recognizes endogenous levels of Beclin-1 protein.

#### Dilution

WB~~WB (1/500 - 1/2000)

#### Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

#### Storage

Store at -20 °C. Stable for 12 months from date of receipt

#### Anti-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>

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

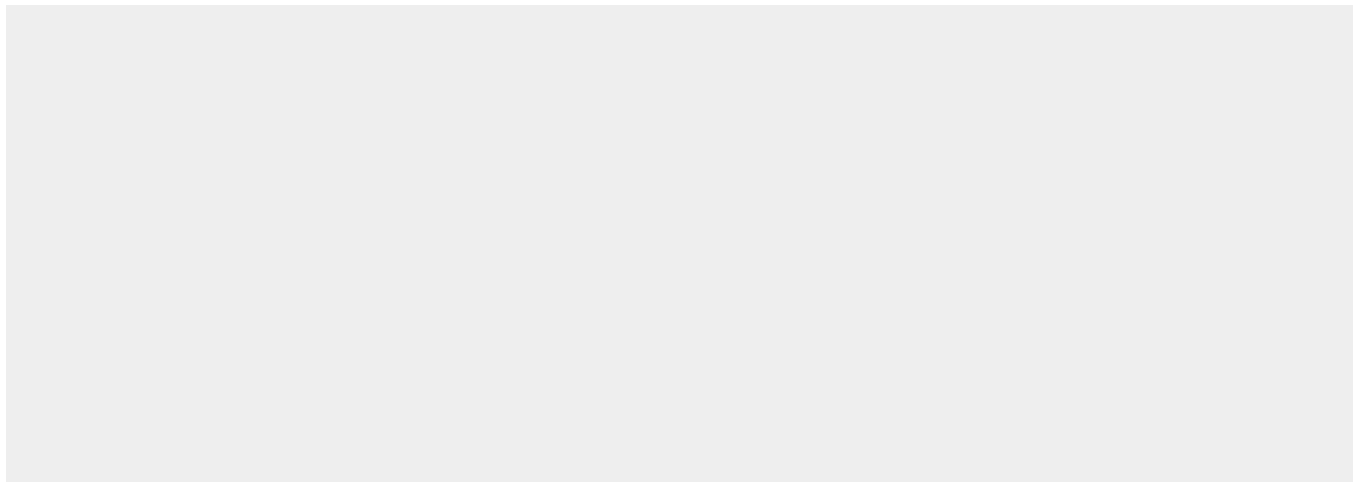
Ubiquitous.

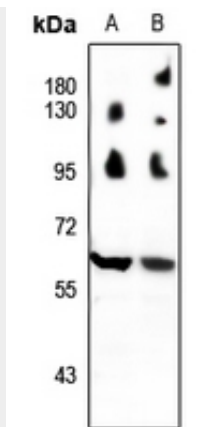
### Anti-Beclin-1 Antibody - Protocols

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](#)

### Anti-Beclin-1 Antibody - Images





Western blot analysis of Beclin-1 expression in Jurkat (A), U87MG (B) whole cell lysates.

#### **Anti-Beclin-1 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Beclin-1. The exact sequence is proprietary.