

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

Specification

Anti-Beclin-1 Antibody - Product Information

Application	WB
Primary Accession	O14457
Other Accession	O88597
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: 18570871, PubMed: 21358617, PubMed: 23184933, PubMed: 23974797, PubMed: 25484083, PubMed: 28445460, PubMed: 37776275

target="_blank">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:20208530, PubMed:20643123, PubMed:23974797, PubMed:26783301). Essential for the formation of PI3KC3-C2 but not PI3KC3-C1 PI3K complex forms. Involved in endocytosis (PubMed:25275521). 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

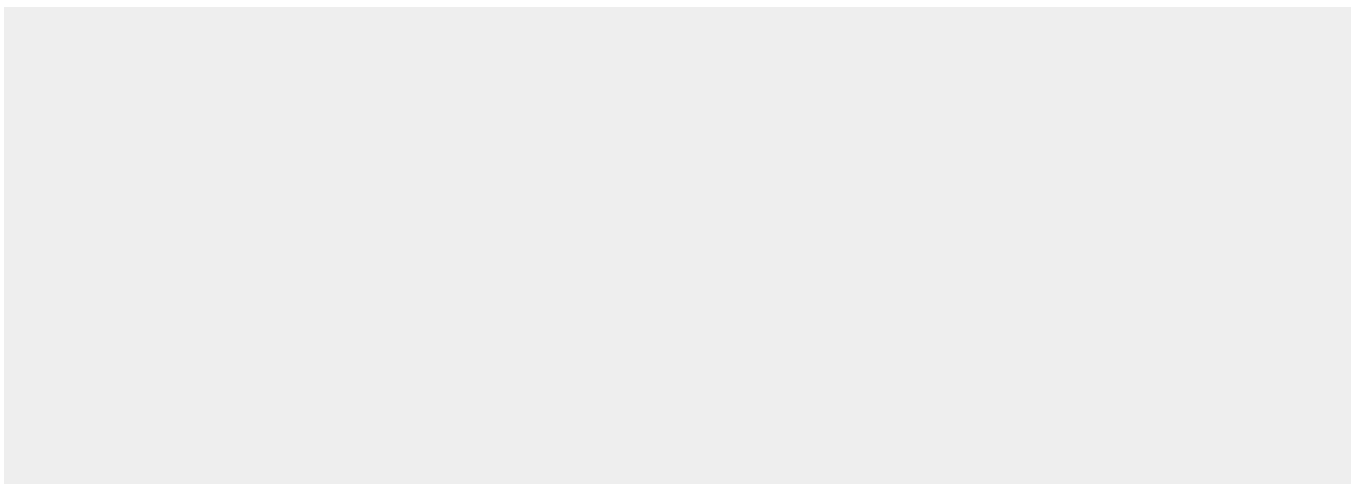
Ubiquitous.

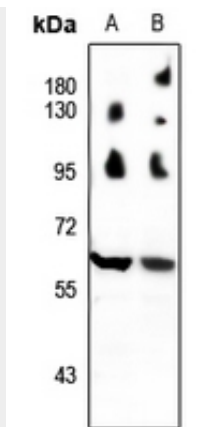
Anti-Beclin-1 Antibody - Protocols

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.