

Beclin-1 Polyclonal Antibody
Catalog # AP73946**Specification****Beclin-1 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	Q14457
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal

Beclin-1 Polyclonal Antibody - Additional Information**Gene ID** 8678**Other Names**

beclin 1, autophagy related

Dilution

WB~~WB 1:500-2000, ELISA 1:10000-20000

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Beclin-1 Polyclonal Antibody - 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:[20208530](http://www.uniprot.org/citations/20208530), PubMed:[20643123](http://www.uniprot.org/citations/20643123))

target="_blank">>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

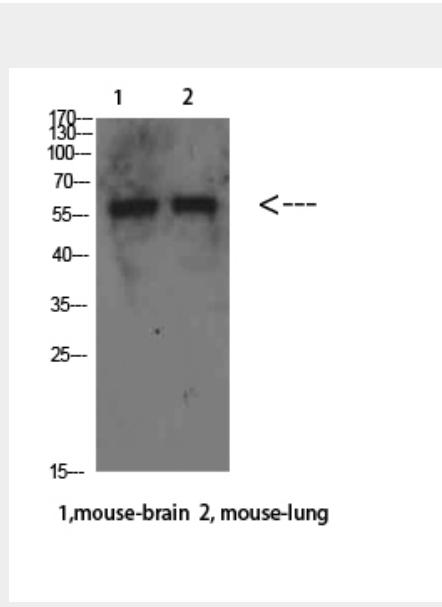
Ubiquitous.

Beclin-1 Polyclonal 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 Polyclonal Antibody - Images



Beclin-1 Polyclonal Antibody - Background

Plays a central role in autophagy (PubMed:23184933, PubMed:28445460). Acts as 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 abission step in cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20643123, PubMed:20208530, 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.