

# Beclin 1 Rabbit mAb

Catalog # AP79019

## Product Information

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Application	WB, IHC-P, IP, ICC
Primary Accession	<a href="#">Q14457</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	51896

## Additional Information

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Gene ID	8678
Other Names	BECN1
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IP~~N/A ICC~~N/A
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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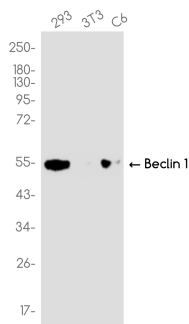
Name	BECN1
Synonyms	GT197
Function	Plays a central role in autophagy (PubMed: <a href="#">18570871</a> , PubMed: <a href="#">21358617</a> , PubMed: <a href="#">23184933</a> , PubMed: <a href="#">23974797</a> , PubMed: <a href="#">25484083</a> , PubMed: <a href="#">28445460</a> , PubMed: <a href="#">37776275</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="#">20208530</a> , PubMed: <a href="#">20643123</a> , PubMed: <a href="#">23974797</a> , PubMed: <a href="#">26783301</a> ). Essential for the formation of PI3KC3-C2 but not PI3KC3-C1 PI3K complex forms. Involved in endocytosis (PubMed: <a href="#">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.

**Images**

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.