

Beclin-1 Polyclonal Antibody

Catalog # AP63508

Product Information

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|-------------------|------------------------|
| Application | WB |
| Primary Accession | Q14457 |
| Reactivity | Human, Mouse, Rat |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 51896 |

Additional Information

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|--------------------|---|
| Gene ID | 8678 |
| Other Names | BECN1; GT197; Beclin-1; Coiled-coil myosin-like BCL2-interacting protein; Protein GT197 |
| Dilution | WB~~WB: 1:1000-2000 |
| Format | PBS, pH 7.4, containing 0.09% (W/V) sodium azide as Preservative and 50% Glycerol. |
| Storage Conditions | -20°C |

Protein Information

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|-------------------|---|
| 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). 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. |

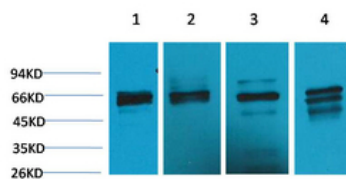
Endoplasmic reticulum membrane; Peripheral membrane protein. Mitochondrion membrane; Peripheral membrane protein. Endosome {ECO:0000250|UniProtKB:O88597} Cytoplasmic vesicle, autophagosome. Note=Interaction with ATG14 promotes translocation to autophagosomes. Expressed in dendrites and cell bodies of 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.

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 abscission 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.

Images



Western blot analysis of 1) Jurkat, 2) 293T, 3) C2C12, 4) Rat Kidney using Beclin-1 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

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