

# Beclin 1 Antibody

Purified Mouse Monoclonal Antibody (Mab)  
Catalog # AP52755

## Product Information

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|--------------------------|------------------------|
| <b>Application</b>       | WB                     |
| <b>Primary Accession</b> | <a href="#">Q14457</a> |
| <b>Reactivity</b>        | Human, Mouse           |
| <b>Host</b>              | Mouse                  |
| <b>Clonality</b>         | Monoclonal             |
| <b>Isotype</b>           | IgG1                   |
| <b>Calculated MW</b>     | 51896                  |

## Additional Information

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|--------------------|---|
| <b>Gene ID</b>     | 8678  |
| <b>Other Names</b> | APG6;ATG 6;ATG6;ATG6 autophagy related 6 homolog;Bcl-2-interacting protein beclin;Beclin 1 (coiled coil moesin like BCL2 interacting protein);Beclin 1 autophagy related;Beclin-1;Beclin1;BECN 1;BECN1;BECN1_HUMAN;Coiled coil myosin like BCL2 interacting protein; Coiled-coil myosin-like BCL2-interacting protein;GT197;Protein GT197;VPS 30;VPS30. |
| <b>Dilution</b>    | WB~~1:1000  |
| <b>Format</b>      | Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.09% (W/V) sodium azide, 50%,glycerol  |
| <b>Storage</b>     | Store at -20 °C.Stable for 12 months from date of receipt   |

## Protein Information

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|-----------------|---|
| <b>Name</b>     | BECN1   |
| <b>Synonyms</b> | GT197   |
| <b>Function</b> | 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:[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.

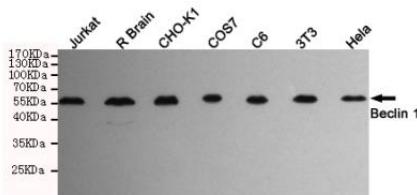
## Background

Plays a central role in autophagy (PubMed: [23184933](#)). Required for the abission step in cytokinesis (PubMed:[20208530](#)). Protects against infection by a neurovirulent strain of Sindbis virus (PubMed:[9765397](#)). May play a role in antiviral host defense.

## References

- Liang X.H.,et al.J. Virol. 72:8586-8596(1998).  
Aita V.M.,et al.Genomics 59:59-65(1999).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Rommens J.M.,et al.Genomics 28:530-542(1995).  
Itakura E.,et al.Mol. Biol. Cell 19:5360-5372(2008).

## Images



Western blot detection of Beclin 1 in Hela,3T3,C6,COS7,CHO-K1,Rat brain and Jurkat cell lysates using Beclin 1 mouse mAb (1:1000 diluted).Predicted band size:52KDa.Observed band size:55KDa.

## Citations

- [Loss of Concurrent Regulation of the Expression of BIF-1, BAX, and Beclin-1 in Primary and Metastatic Melanoma](#)
- [Inhibition of CRL-NEDD8 pathway as a new approach to enhance ATRA-induced differentiation of acute promyelocytic leukemia cells.](#)
- [Sphingosine Kinase 1 Protects Renal Tubular epithelial cells from Renal Fibrosis via Induction of Autophagy.](#)

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