

BECN1 / Beclin-1 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS12683

Specification

BECN1 / Beclin-1 Antibody (N-Terminus) - Product Information

Application	IHC, WB
Primary Accession	Q14457
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52kDa KDa

BECN1 / Beclin-1 Antibody (N-Terminus) - Additional Information

Gene ID 8678

Other Names

Beclin-1, Coiled-coil myosin-like BCL2-interacting protein, Protein GT197, BECN1, GT197

Target/Specificity

17 amino acid peptide from near the amino terminus of human Beclin-1

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

BECN1 / Beclin-1 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

BECN1 / Beclin-1 Antibody (N-Terminus) - 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, 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

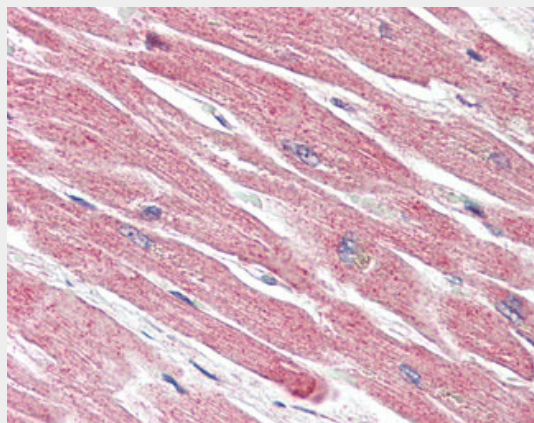
Ubiquitous.

BECN1 / Beclin-1 Antibody (N-Terminus) - Protocols

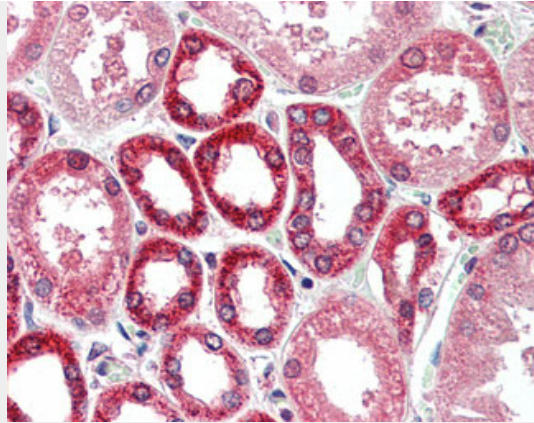
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

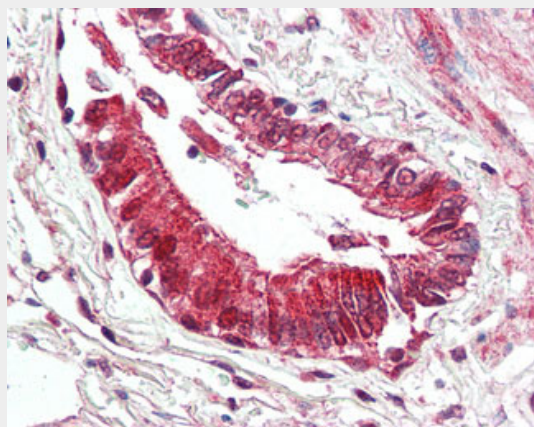
BECN1 / Beclin-1 Antibody (N-Terminus) - Images



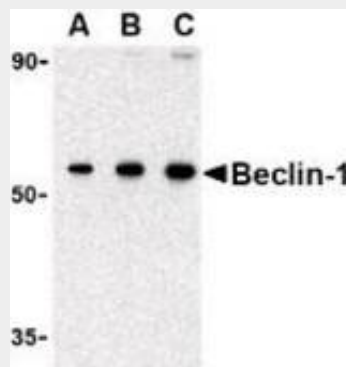
Anti-BECN1 / Beclin-1 antibody IHC of human heart.



Anti-BECN1 / Beclin-1 antibody IHC of human kidney.



Anti-BECN1 / Beclin-1 antibody IHC of human lung, respiratory epithelium.



Western blot of Beclin-1 in 293 cell lysate with Beclin-1 antibody at (A) 0.5, (B) 1 and (C) 2...

BECN1 / Beclin-1 Antibody (N-Terminus) - Background

Plays a central role in autophagy (PubMed:23184933). Required for the abscission 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.

BECN1 / Beclin-1 Antibody (N-Terminus) - 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).