

BECN1 Antibody (Ascites)
Mouse Monoclonal Antibody (Mab)
Catalog # AM1818b

Specification

BECN1 Antibody (Ascites) - Product Information

Application	IF, WB, IHC-P,E
Primary Accession	Q14457
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgM, κ

BECN1 Antibody (Ascites) - Additional Information

Gene ID 8678

Other Names

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

Target/Specificity

This BECN1 Monoclonal antibody was raised using purified His-tagged recombinant full length human Autophagy BECN1.

Dilution

IF~~1:10~50
WB~~1:500~1000
IHC-P~~1:50~100

Format

Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

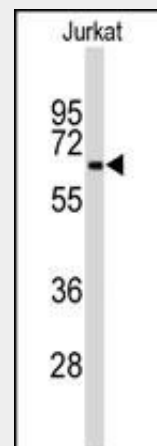
Precautions

BECN1 Antibody (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

BECN1 Antibody (Ascites) - Protein Information



Immunofluorescence analysis of BECN1 Monoclonal Antibody with paraffin-embedded human brain tissue .0.05 mg/ml primary antibody was followed by PE-conjugated goat anti-mouse IgG (whole molecule). PE emits orange fluorescence.



Western blot analysis of anti-BECN1 Monoclonal Antibody (Cat. #AM1818b) in Jurkat cell line lysates (35µg/lane). BECN1 (arrow) was detected using the Mab ascites (1:100 dilution).

Name BECN1

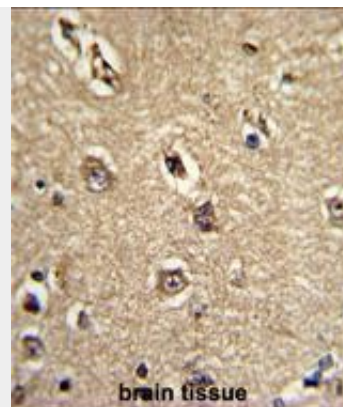
Synonyms GT197

Function

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.

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:O88597, ECO:0000269|PubMed:19713971, ECO:0000269|PubMed:21364619}. 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}



Formalin-fixed and paraffin-embedded human brain with BECN1 Monoclonal Antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

BECN1 Antibody (Ascites) - Background

Beclin-1 participates in the regulation of autophagy and has an important role in development, tumorigenesis, and neurodegeneration (Zhong et al., 2009 [PubMed 19270693]).

BECN1 Antibody (Ascites) - References

Age at onset in Huntington's disease is modified by the autophagy pathway: implication of the V471A polymorphism in Atg7. Metzger S, et al. Hum Genet, 2010 Oct. PMID 20697744. Interaction of Beclin 1 with survivin regulates sensitivity of human glioma cells to TRAIL-induced apoptosis. Niu TK, et al. FEBS Lett, 2010 Aug 20. PMID 20638385. Regulation of amyloid precursor protein processing by the Beclin 1 complex. Jaeger PA, et al. PLoS One, 2010 Jun 15. PMID 20559548. Genetic and epigenetic silencing of the beclin 1 gene in sporadic breast tumors. Li Z, et al. BMC Cancer, 2010 Mar 16. PMID 20230646. Over-expression of the Beclin1 gene upregulates chemosensitivity to anti-cancer drugs by enhancing therapy-induced apoptosis in cervix squamous carcinoma CaSki cells. Sun Y, et al. Cancer Lett, 2010 Aug 28. PMID 20207475.

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 Antibody (Ascites) - 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](#)