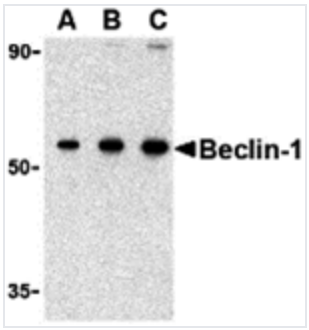
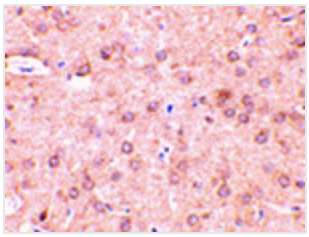
Beclin-1 (BECN1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Beclin-1 (BECN1), Polyclonal Antibody
Full Product Name	Beclin-1 Antibody
Product Gene Name	anti-BECN1 antibody
Product Synonym Names	Beclin-1, Coiled-coil myosin-like Bcl-2-interacting protein
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied in PBS containing 0.02% sodium azide.
Purity/Purification	Affinity chromatography purified via peptide column
Preparation and Storage	Can be stored at -20 degree C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Molecular Weight	51,896 Da
OMIM	604378
Immunogen Type	Peptide
Immunogen Description	Raised against a 17 amino acid peptide from near the amino terminus of human Beclin-1.
Target Name	Beclin-1
Product Categories/Family for anti-BECN1 antibody	Total protein Ab
Applications Tested/Suitable for anti-BECN1 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-BECN1 antibody	Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-lysosomal pathway is important for normal growth control and may be defective in tumor cells. Beclin-1, a coiled-coil Bcl-2-interacting protein homologous to the yeast autophagy gene apg6, is a mammalian autophagy gene that can inhibit tumorigenesis and is expressed at reduced levels in human breast carcinoma, suggesting that defects in autophagy proteins may contribute to the development or progression of tumors. Bcl-2 can bind to Beclin-1 and inhibit Beclin-1-dependent autophagy in yeast and mammalian cells, suggesting that Bcl-2 functions as an anti-autophagy protein as well as an anti-apoptotic protein, which helps maintain autophagy at levels that are more compatible with cell survival rather than cell death.
Other Notes	Small volumes of anti-BECN1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BECN1 purchase	MBS9403851 is an antibody targeting BECN1. Also known as Beclin-1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-BECN1 antibody
Western blot analysis of Beclin-1 in 293 cell lysate with Beclin-1 antibody at (A) 0.5, (B) 1 and (C) 2 ug/mL.



Immunohistochemistry (IHC) of anti-BECN1 antibody
Immunohistochemistry of beclin-1 in rat brain tissue with beclin-1 antibody at 2 ug/mL.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BECN1. It may not necessarily be applicable to this product.

NCBI GI #	16307457
NCBI GeneID	8678
NCBI Accession #	AAH10276
UniProt Secondary Accession #	O75595; Q9UNA8; B2R6N7
UniProt Related Accession #	Q14457
NCBI Official Full Name	Beclin 1, autophagy related
NCBI Official Synonym Full Names	beclin 1, autophagy related
NCBI Official Symbol	BECN1
NCBI Official Synonym Symbols	ATG6; VPS30; beclin1
UniProt Protein Name	Beclin-1
UniProt Synonym Protein Names	Coiled-coil myosin-like BCL2-interacting protein; Protein GT197
Protein Family	Beclin
UniProt Gene Name	BECN1
UniProt Synonym Gene Names	GT197
UniProt Entry Name	BECN1_HUMAN
NCBI Protein Information	beclin-1
NCBI Summary for BECN1	Beclin-1 participates in the regulation of autophagy and has an important role in development, tumorigenesis, and neurodegeneration (Zhong et al., 2009 [PubMed 19270693]).[supplied by OMIM, Jul 2010]

UniProt Comments for BECN1	beclin 1: an essential autophagy protein that has been linked to multiple processes including tumor suppression, protection against some cardiac and neurological degenerative diseases, and lifespan extension. A ubiquitous protein of the beclin family. Is part of the class III PI3K complex that induces autophagy. Expressed at elevated levels in dendrites and cell bodies of cerebellar Purkinje cells. Interacts with the anti-apoptotic protein Bcl-2, which inhibits autophagy when it is present in the endoplasmic reticulum. The dissociation of ATG6 from Bcl-2 is essential for its autophagic activity. Interacts with PITC and GluR-delta2. Probably forms a complex with AMBRA1 and PIK3C3. Plays a role in antiviral host defense. Protects against infection by a neurovirulent strain of Sindbis virus. Protein type: Adaptor/scaffold; Autophagy; Membrane protein, peripheral Chromosomal Location of Human Ortholog: 17q21 Cellular Component: extrinsic to membrane; mitochondrion; endoplasmic reticulum; dendrite; cytoplasmic membrane-bound vesicle; phagocytic vesicle; trans-Golgi network; nucleus; endosome Molecular Function: protein binding; phosphoinositide 3-kinase binding Biological Process: response to drug; viral reproduction; late endosome to vacuole transport; cytokinesis; CVT pathway; cellular response to nitrogen starvation; negative regulation of cell proliferation; response to vitamin E; regulation of catalytic activity; lysosome organization and biogenesis; beta-amyloid metabolic process; response to hypoxia; mitochondrion degradation; neuron development; cellular defense response; positive regulation of macroautophagy; defense response to virus; positive regulation of autophagy; autophagic vacuole formation; negative regulation of apoptosis
Research Articles on BECN1	**1.** showed a marked effect on the apoptosis of K562 cells by Beclin 1 shRNA to sonodamage with increased DAPI staining and caspase-3 cleavage
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