Beclin 1 (BECN1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Beclin 1 (BECN1), Polyclonal Antibody
Full Product Name	Beclin 1 (S249) (BECN1, GT197, Beclin-1, Coiled-coil myosin-like BCL2-interacting protein, Protein GT197) (MaxLight 490)
Product Gene Name	anti-BECN1 antibody
Product Synonym Names	Beclin 1; APG6; Coiled-coil myosin-like BCL2-interacting protein; Bcl-2-interacting protein beclin; Protein GT197; BECN1; GT197; ATG6
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	51,896 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (40962150..40976310, complement). Location: 17q21
OMIM	604378
3D Structure	ModBase 3D Structure for Q14457
Immunogen	BECN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 234~264 amino acids surrounding S249 of human BECN1.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-BECN1 antibody	Antibodies; Autophagy
Applications Tested/Suitable for anti-BECN1 antibody	Immunohistochemistry (IHC), FLISA
Application Notes for anti-BECN1 antibody	IHC: 1:10-50 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-BECN1 antibody	MaxLight490 is a new Blue-Green photostable dye conjugate comparable to DyLight488, Alexa Fluor488 and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (491nm); Emission (515nm); Extinction Coefficient 73,000.
Product References and Citations for anti-BECN1 antibody	Baehrecke EH. Nat Rev Mol Cell Biol. 6(6):505-10. (2005). Lum JJ, et al. Nat Rev Mol Cell Biol. 6(6):439-48. (2005). Greenberg JT. Dev Cell. 8(6):799-801. (2005). Levine B. Cell. 120(2):159-62. (2005). Shintani T and Klionsky DJ. Science. 306(5698):990-5. (2004). Liang, X.H., et al. J. Virol. 72 (11), 8586-8596 (1998). Aita V.M., et al. Genomics 59:59-65(1999).

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	MBS6278170 is an antibody targeting BECN1. Also known as Beclin 1 (S249) (BECN1, GT197, Beclin-1, Coiled-coil myosin-like BCL2-interacting protein, Protein GT197) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	4680381
NCBI GeneID	8678
NCBI Accession #	AAD27650.1
UniProt Primary Accession #	Q14457
UniProt Secondary Accession #	O75595; Q9UNA8
UniProt Related Accession #	Q14457
NCBI Official Full Name	beclin 1
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; ATG6 autophagy related 6 homolog; coiled-coil myosin-like BCL2-interacting protein; beclin 1 (coiled-coil, moesin-like BCL2 interacting protein); beclin 1 (coiled-coil, moesin-like BCL2-interacting protein)
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; cytoplasmic membrane-bound vesicle; dendrite; 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; lysosome organization and biogenesis; regulation of catalytic activity; beta-amyloid metabolic process; mitochondrion degradation; response to hypoxia; cellular defense response; neuron development; defense response to virus; positive regulation of macroautophagy; positive regulation of autophagy; negative regulation of apoptosis; autophagic vacuole formation
Research Articles on BECN1	**1.** Beclin 1 is critical for breast cancer stem-like cells maintenance and tumor development
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