

KD-Validated Anti-Beclin 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1830

Product Information

Application	WB
Primary Accession	Q14457
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB4550
Calculated MW	51896
Gene Name	BECN1
Aliases	BECN1; Beclin 1; VPS30; ATG6; Coiled-Coil Myosin-Like BCL2-Interacting Protein; Beclin 1, Autophagy Related; Beclin-1; Beclin 1 (Coiled-Coil, Moesin-Like BCL2 Interacting Protein); Beclin 1 (Coiled-Coil, Moesin-Like BCL2-Interacting Protein); ATG6 Autophagy Related 6 Homolog (S. Cerevisiae); Testis Secretory Sperm-Binding Protein Li 215e; ATG6 Autophagy Related 6 Homolog; Beclin1-Gamma; Protein GT197; Beclin1-Beta; Beclin1; GT197
Immunogen	Recombinant protein of human Beclin 1

Additional Information

Gene ID	8678
Other Names	Beclin-1, Coiled-coil myosin-like BCL2-interacting protein, Protein GT197, Beclin-1-C 35 kDa, Beclin-1-C 37 kDa, BECN1, GT197

Protein Information

Name	BECN1
Synonyms	GT197
Function	Plays a central role in autophagy (PubMed: 18570871 , PubMed: 21358617 , PubMed: 23184933 , PubMed: 23974797 , PubMed: 25484083 , PubMed: 28445460 , PubMed: 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.

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