

KD-Validated Anti-Beclin 1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1830**Specification****KD-Validated Anti-Beclin 1 Rabbit Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	Q14457
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 52 kDa, observed, 60 kDa kDa
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

KD-Validated Anti-Beclin 1 Rabbit Monoclonal Antibody - 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	

KD-Validated Anti-Beclin 1 Rabbit Monoclonal Antibody - 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)

target="_blank">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

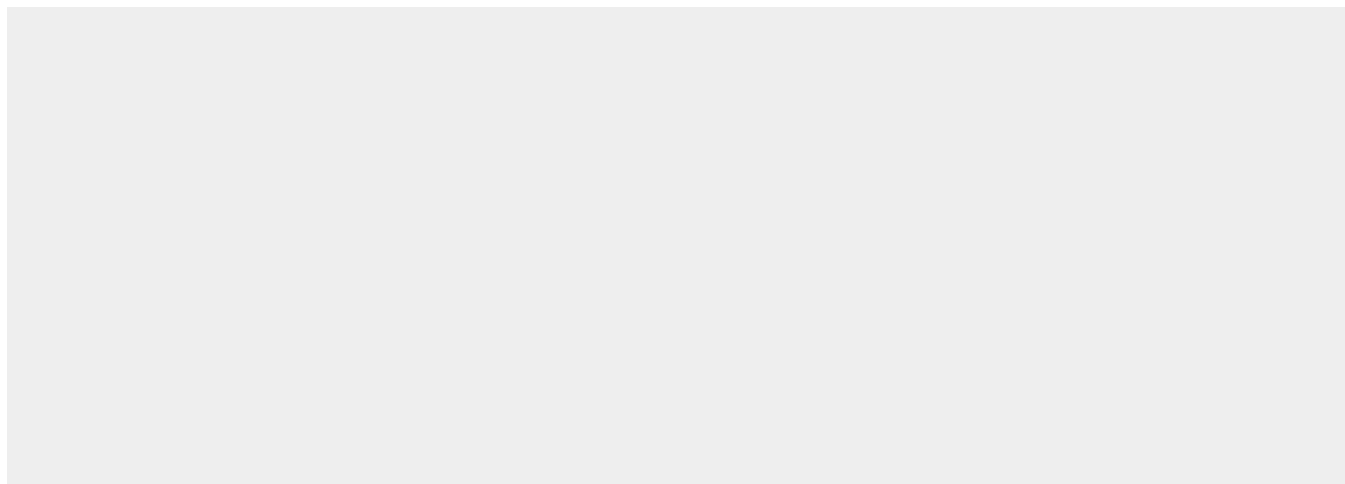
Ubiquitous.

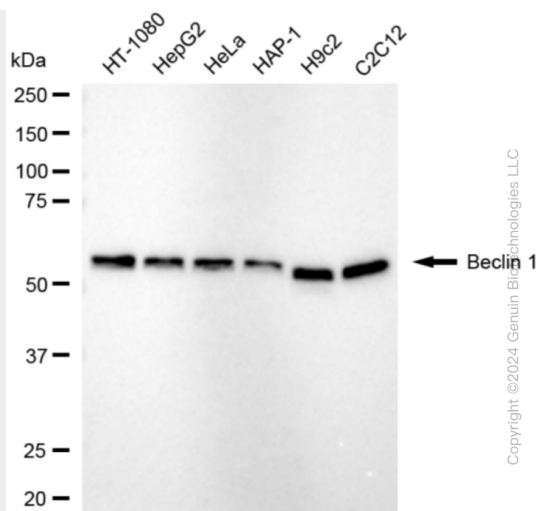
KD-Validated Anti-Beclin 1 Rabbit Monoclonal Antibody - Protocols

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

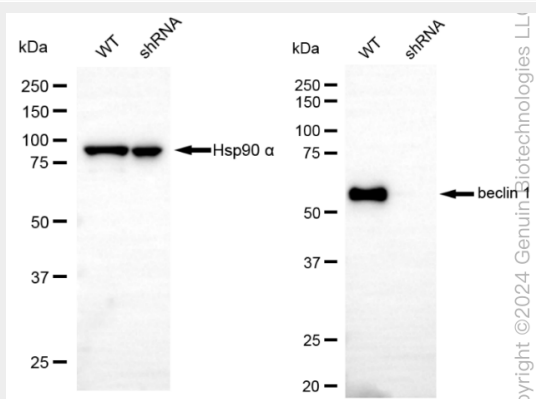
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-Beclin 1 Rabbit Monoclonal Antibody - Images





Western blotting analysis using anti-beclin 1 antibody (Cat#AGI1830). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-beclin 1 antibody (Cat#AGI1830, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-beclin 1 antibody (Cat#AGI1830). Beclin 1 expression in wild type (WT) and beclin 1 (BECN1) shRNA knockdown (KD) HeLa cells with 20 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-beclin 1 antibody (Cat#AGI1830, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.