

## Rabbit anti-Human, Rat Beclin 1 Polyclonal Antibody | anti-BECN1 antibody

Rabbit Anti-Human Beclin 1 Polyclonal

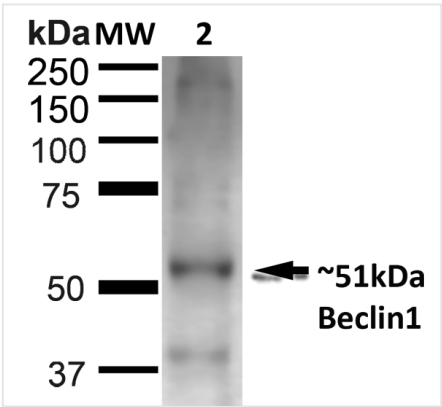
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS |
|-----------|--------|------------|--------------|
| AAA103834 | Rabbit | Human, Rat | Western Blot |

### PRODUCT SYNONYMS

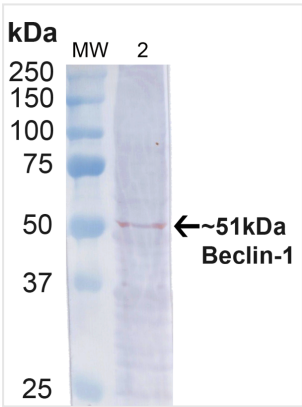
Beclin 1; Polyclonal Antibody; Rabbit Anti-Human Beclin 1 Polyclonal; APG6 Antibody; BCL-2 interacting protein beclin Antibody; Beclin 1 autophagy related Antibody; BECN1 Antibody; BECN1\_HUMAN Antibody; GT197 Antibody; VPS30 Antibody; Beclin 1 Antibody; anti-BECN1 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                         |
| Reactivity                                      | Human, Rat                                                                                                                                                                     |
| Clonality                                       | Polyclonal                                                                                                                                                                     |
| Purity/Purification                             | Peptide Affinity Purified                                                                                                                                                      |
| Concentration                                   | 1 mg/ml (varies by lot)                                                                                                                                                        |
| Sequence Length                                 | 450                                                                                                                                                                            |
| Applicable Applications for anti-BECN1 antibody | WB (Western Blot)                                                                                                                                                              |
| Immunogen                                       | Synthetic peptide from the mid-protein of human Beclin 1                                                                                                                       |
| Immunogen Species                               | Human                                                                                                                                                                          |
| COA                                             | A 1:1000 dilution was sufficient for detection of Beclin1 on HeLa cell lysates using Goat anti-rabbit IgG:HRP as the secondary antibody.                                       |
| Storage Buffer                                  | PBS, 50% glycerol, 0.09% sodium azide                                                                                                                                          |
| Conjugate                                       | Unconjugated                                                                                                                                                                   |
| Cellular Localization                           | Cytoplasm, Golgi apparatus, Trans-Golgi network membrane  Endosomes, Endoplasmic reticulum membrane, Mitochondrion, Mitochondrion membrane, Cytoplasmic vesicle, Autophagosome |
| Preparation and Storage                         | Store at -20 degree C                                                                                                                                                          |



**WB (Western Blot)**  
Western blot analysis of Rat Liver showing detection of ~51kDa Beclin 1 protein using Rabbit Anti-Beclin 1 Polyclonal Antibody (SPC-600). Lane 1: MW Ladder. Lane 2: Rat Liver (20 ug). Load: 20 ug. Block: 5% milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-Beclin 1 Polyclonal Antibody (SPC-600) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit: HRP at 1:2000 for 1 hour at RT. Color Development: TMB solution for 12 min at RT. Predicted/Observed Size: ~51kDa.



**WB (Western Blot)**  
Western blot analysis of Human Cervical cancer cell line (HeLa) lysate showing detection of ~51kDa Beclin 1 protein using Rabbit Anti-Beclin 1 Polyclonal Antibody (SPC-600). Lane 1: MW Ladder. Lane 2: Human HeLa (20 ug). Load: 20 ug. Block: 5% milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-Beclin 1 Polyclonal Antibody (SPC-600) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit: HRP at 1:2000 for 1 hour at RT. Color Development: TMB solution for 12 min at RT. Predicted/Observed Size: ~51kDa.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-BECN1 antibody | Beclin 1 is the mammalian ortholog of the yeast autophagy -related gene Atg6. It regulates autophagy and has an important role in development, tumorigenesis and neurodegeneration (1). Beclin 1 is localized within cytoplasmic structures including the mitochondria, yet overexpression reveals some nuclear staining (2). Researchers have found that schizizophrenia is associated with low levels of Beclin-1 in the hippocampus (3). It may also protect against infection by a neurovirulent strain of Sindbis virus (4). |
| Product Categories/Family for anti-BECN1 antibody   | Cancer; Cell Signaling; Epigenetics; Autophagy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| References                                          | 1. Zhong Y., et al. (2009) Nat Cell Biol. 11(4): 468-476. 2. Liang X.H., et al. (2001) Cancer Res. 61: 3443-3449. 3. Merenlender-Wagner A., et al. (2013) Mol. Psychiatry 20:126-132. 4. Liang X.H., et al. (1998) J Virol. 72: 8586-8596.                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                            |
|----------------------------------|--------------------------------------------------------------------------------------------|
| NCBI GI #                        | 929524267                                                                                  |
| NCBI GeneID                      | 8678                                                                                       |
| NCBI Accession #                 | NP_001300927.1                                                                             |
| NCBI GenBank Nucleotide #        | NM_001313998.1                                                                             |
| UniProt Accession #              | Q14457; O75595; Q9UNA8; B2R6N7                                                             |
| Molecular Weight                 | Predicted molecular weight at ~51kDa. Observed a secondary band on some lysates at ~30kDa. |
| NCBI Official Full Name          | beclin-1 isoform a                                                                         |
| NCBI Official Synonym Full Names | beclin 1, autophagy related                                                                |
| NCBI Official Symbol             | BECN1                                                                                      |
| NCBI Official Synonym Symbols    | ATG6; VPS30; beclin1                                                                       |
| NCBI Protein Information         | beclin-1                                                                                   |
| UniProt Protein Name             | Beclin-1                                                                                   |
| UniProt Gene Name                | BECN1                                                                                      |

|                            |             |
|----------------------------|-------------|
| UniProt Synonym Gene Names | GT197       |
| UniProt Entry Name         | BECN1_HUMAN |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/beclin-1-antibody-western-blot-elisa/103834>