

Beclin 1 Antibody

Catalog # ASM10489

Specification

Beclin 1 Antibody - Product Information

Application WB, ICC Primary Accession Q14457

Other Accession NP 001300927.1

Host Rabbit Reactivity Human Clonality Polyclonal

Description

Rabbit Anti-Human Beclin 1 Polyclonal

Target/Specificity

Predicted molecular weight at ~51kDa. Observed a secondary band on some lysates at ~30kDa.

Other Names

APG6 Antibody, BCL-2 interacting protein beclin Antibody, Beclin 1 autophagy related Antibody, BECN1 Antibody, BECN1 HUMAN Antibody, GT197 Antibody, VPS30 Antibody

Immunogen

Synthetic peptide from the mid-protein of human Beclin 1

Purification

Peptide Affinity Purified

Storage -20°C

Storage Buffer

PBS, 50% glycerol, 0.09% sodium azide

Shipping Temperature Blue Ice or 4°C

Certificate of Analysis

A 1:1000 dilution of SPC-600 was sufficient for detection of Beclin1 on HeLa cell lysates using Goat anti-rabbit IgG:HRP as the secondary antibody.

Cellular Localization

Cytoplasm | Golgi apparatus | Trans-Golgi network membrane | Endosome | Endoplasmic reticulum membrane | Mitochondrion | Mitochondrion membrane | Cytoplasmic vesicle | Autophagosome

Beclin 1 Antibody - Protocols

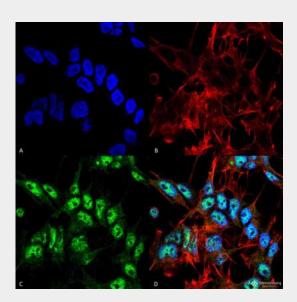
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence

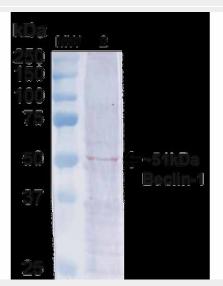


- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Beclin 1 Antibody - Images

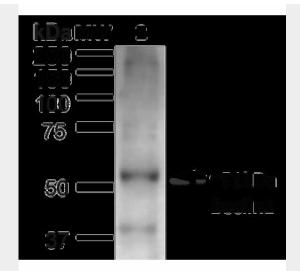


Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Beclin 1 Polyclonal Antibody (ASM10489). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Rabbit Anti-Beclin 1 Polyclonal Antibody (ASM10489) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Rabbit ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) Beclin 1 Antibody (D) Composite.



Western blot analysis of Human HeLa cell lysates showing detection of $\sim 51 kDa$ Beclin 1 protein using Rabbit Anti-Beclin 1 Polyclonal Antibody (ASM10489). Lane 1: MW Ladder. Lane 2: Human HeLa (20 μ g). Load: 20 μ g. Block: 5% milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-Beclin 1 Polyclonal Antibody (ASM10489) 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: $\sim 51 kDa$.





Western blot analysis of Rat Liver showing detection of $\sim 51 \text{kDa}$ Beclin 1 protein using Rabbit Anti-Beclin 1 Polyclonal Antibody (ASM10489). Lane 1: MW Ladder. Lane 2: Rat Liver (20 µg). Load: 20 µg. Block: 5% milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-Beclin 1 Polyclonal Antibody (ASM10489) 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: $\sim 51 \text{kDa}$.

Beclin 1 Antibody - Background

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 schizonphrenia is associated with low levels of Beclin-1 in the hippocampus (3). It may also protect against infection by a neuorvirulent strain of Sindbis virus (4).

Beclin 1 Antibody - 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) | Virol. 72: 8586-8596.