

Beclin 1 Rabbit pAb

Catalog Number: bs-1353R

Target Protein: Beclin 1

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:200-1000), IHC-F (1:200-1000), IF (1:200-1000)

Reactivity: Human, Mouse, Rat, Pig

Predicted MW: 50 kDa

Entrez Gene: 8678

Swiss Prot: Q14457

Source: KLH conjugated synthetic peptide derived from human BECN1: 201-330/450.

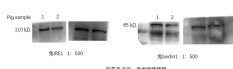
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

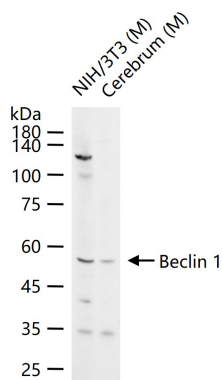
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Beclin 1 is the first identified mammalian gene to mediate autophagy and also has tumor suppressor and antiviral function. Autophagy, a process of bulk protein degradation through an autophagosomal lysosomal pathway, is important for differentiation, survival during nutrient deprivation, and normal growth control, and is often defective in tumor cells. Beclin 1 was originally isolated in a yeast two hybrid screen to identify Bcl 2 binding partners and maps to a tumor susceptibility locus on human chromosome 17q21 that is frequently monoallelically deleted in human breast, ovarian and prostate cancer. Beclin 1 encodes an evolutionarily conserved 52kDa coiled coil protein that is expressed in human muscle, epithelial cells and neurons.

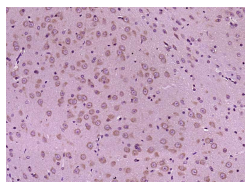
VALIDATION IMAGES



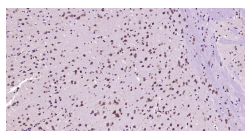
Sample: Pig Primary: Anti-Beclin-1 (bs-1353R) at 1:500 dilution;



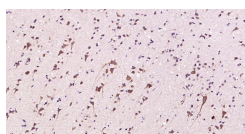
25 ug total protein per lane of various lysates (see on figure) probed with Beclin 1 polyclonal antibody, unconjugated (bs-1353R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



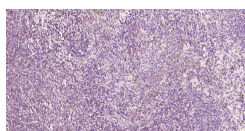
Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Beclin 1) Polyclonal Antibody, Unconjugated (bs-1353R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Beclin 1 Polyclonal Antibody, Unconjugated (bs-1353R) at 1:800 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Beclin 1 Polyclonal Antibody, Unconjugated (bs-1353R) at 1:800 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Mouse Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Beclin 1 Polyclonal Antibody, Unconjugated (bs-1353R) at 1:800 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=16.016] Jilong Zhou. et al. ATG7-mediated autophagy facilitates embryonic stem cell exit from naive pluripotency and marks commitment to differentiation. 2022 Mar 20 WB ; Mouse . 35311460

[IF=16.016] Hainan He. et al. Selective autophagic degradation of ACLY (ATP citrate lyase) maintains citrate homeostasis and promotes oocyte maturation. AUTOPHAGY. 2022 Apr 25 WB ; Pig . 35404187

[IF=10.171] Wan Zhou. et al. Retinol binding protein 4 promotes the phenotypic transformation of vascular smooth muscle cells under high glucose condition via modulating RhoA/ROCK1 pathway. TRANSL RES. 2023 Mar; WB ; Rat . 37003483

[IF=9.988] Yue Zhang. et al. Endoplasmic reticulum stress-controlled autophagic pathway promotes polystyrene microplastics-induced myocardial dysplasia in birds. ENVIRON POLLUT. 2022 Oct;311:119963 WB ; Chicken . 35973452

[IF=7.9] Hongwei Duan. et al. The mechanism of curcumin to protect mouse ovaries from oxidative damage by regulating AMPK/mTOR

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

mediated autophagy. PHYTOMEDICINE. 2024 Feb;;155468 WB ; Mouse,Human . 38471315