
Beclin 1 Rabbit pAb

Catalog Number: bs-55024R

Target Protein: Beclin 1

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: **WB** (1:500-1000), **IHC-P** (1:400-800), **IHC-F** (1:400-800), **IF** (1:100-500), **Flow-Cyt** (1:100-500),
ELISA (1:5000-10000)

Reactivity: Human, Mouse, Rat (predicted); Pig, Bovine

Predicted MW: 60 kDa

Subcellular: Cell membrane, Cytoplasm

Locations:

Entrez Gene: 8678

Swiss Prot: Q14457

Source: KLH conjugated synthetic peptide derived from human BECN1: 181-280/450.

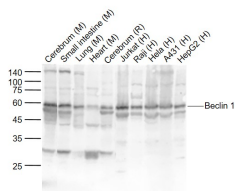
Purification: affinity purified by Protein A

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

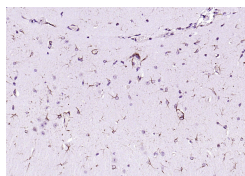
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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.

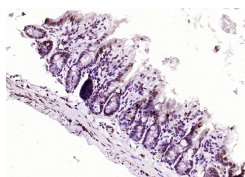
VALIDATION IMAGES



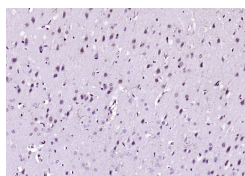
Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Small intestine (Mouse) Lysate at 40 ug Lane 3: Lung (Mouse) Lysate at 40 ug Lane 4: Heart (Mouse) Lysate at 40 ug Lane 5: Cerebrum (Rat) Lysate at 40 ug Lane 6: Jurkat (Human) Cell Lysate at 30 ug Lane 7: Raji (Human) Cell Lysate at 30 ug Lane 8: Hepa2 (Human) Cell Lysate at 30 ug Lane 9: A431 (Human) Cell Lysate at 30 ug Lane 10: HepG2 (Human) Cell Lysate at 30 ug
Primary: Anti-Beclin 1 (bs-55024R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 55-60 kD Observed band size: 60 kD



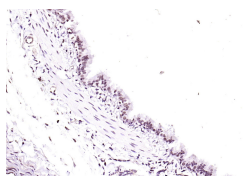
Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Beclin 1) Polyclonal Antibody, Unconjugated (bs-55024R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse small intestine); 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-55024R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



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-55024R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat lung); 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-55024R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=6.196] Cheng He. et al. Crosstalk of renal cell carcinoma cells and tumor-associated macrophages aggravates tumor progression by modulating muscleblind-like protein 2/B-cell lymphoma 2/beclin 1-mediated autophagy. CYTOTHERAPY. 2022 Oct;; WB ; Human . 36244911

[IF=5.3] Kun Wang. et al. Protective effects of tetramethylpyrazine on myocardial ischemia/reperfusion injury involve NLRP3 inflammasome suppression by autophagy activation. BIOCHEM PHARMACOL. 2024 Sep;;116541 WB ; Rat,Mouse . 39284501

[IF=4.9] Qian Zhang. et al. Proteomics and Expression of HIF2 α /BNIP3L Signaling in Yak Brains at Different Altitudes. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2025 Feb 16;26(4):1675. Western Blot, IHC, IF ; Yak . 10.3390/ijms26041675