

**bs-55024R****[ Primary Antibody ]****Beclin 1 Rabbit pAb****Bioss**  
**ANTIBODIES**

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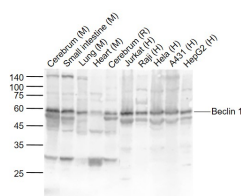
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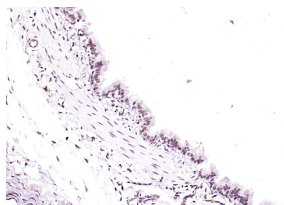
400-901-9800

**DATASHEET**

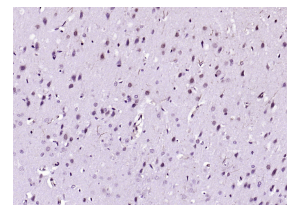
<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 8678 <b>Target:</b> Beclin 1 <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human BECN1: 181-280/450. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. <b>Background:</b> 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.	<b>Isotype:</b> IgG <b>SWISS:</b> Q14457	<b>Applications:</b> <b>WB</b> (1:500-1000) <b>IHC-P</b> (1:400-800) <b>IHC-F</b> (1:400-800) <b>IF</b> (1:100-500) <b>Flow-Cyt</b> (1:100-500) <b>ELISA</b> (1:5000-10000) <b>Reactivity:</b> Human, Mouse, Rat (predicted: Pig, Bovine) <b>Predicted MW.:</b> 60 kDa <b>Subcellular Location:</b> Cell membrane ,Cytoplasm
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**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: Hela (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 (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.



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.

**SELECTED CITATIONS**

- **[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

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

- **[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 $\alpha$ /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