bs-2912R **[Primary Antibody]**

LC3B Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 81631 **SWISS:** Q9GZQ8

Target: LC3B

Immunogen: KLH conjugated synthetic peptide derived from human LC3A/B: 21-121/121.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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: A major contributor to cellular homeostasis is the ability of the cell to strike a balance between the formation and degradation/removal of its cellular components. This process of internal cellular turn-over is called autophagy (self-eating), and is facilitated by a pathway of around 16 interacting proteins in the human. LC3, a ubiquitin-like modifier protein, is the human homolog of yeast Apg8 and is involved in the formation of autophagosomal vacuoles, called autophagosomes. LC3 is expressed as 3 splice variants (LC3A, LC3B and LC3C), which exhibit different tissue distributions and are processed into cytosolic and autophagosomal membrane-bound forms, termed LC3-I and LC3-II, respectively. A disruption to the autophagic process is now associated with the progression of several cancers, neurodegenerative disorders and cardiac pathologies, where LC3 is widely employed as a marker for autophagy.

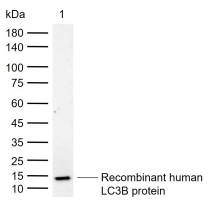
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat, Rabbit (predicted: Pig, Cow, Zebrafish, Chicken, Dog, Horse)

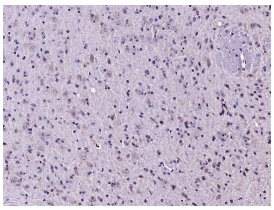
Predicted MW.: 13 kDa

Subcellular Location: Cell membrane ,Cytoplasm

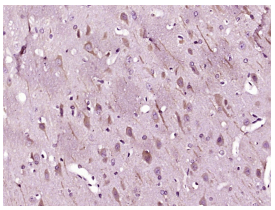
VALIDATION IMAGES



Sample: Lane 1: Recombinant human LC3B protein, N-His(bs-42305P) Primary: Anti-LC3B (bs-2912R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 13 kDa Observed band size: 15 kDa



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (LC3B) Polyclonal Antibody, Unconjugated (bs-2912R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rabbit 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 (LC3B) Polyclonal Antibody, Unconjugated (bs-2912R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=15.304]** Jinbo Li. et al. Autophagy inhibition recovers deficient ICD-based cancer immunotherapy. BIOMATERIALS. 2022 Aug;287:121651 IF ;Mouse. 35777331
- **[IF=15.1]** Xingbo Wang. et al. Construction of a cascade nanosystem to implement indirect and direct cell modulation

for tumor microenvironment immunostimulation. CHEM ENG J. 2024 Apr;485:150141 WB ;Mouse. 10.1016/j.cej.2024.150141

- **[IF=13.281]** Jinjin Shi. et al. Photoactivated Self-Disassembly of Multifunctional DNA Nanoflower Enables Amplified Autophagy Suppression for Low-Dose Photodynamic Therapy. 2021 Oct 20 IF ;Mouse. 34672076
- **[IF=10.6]** Chen Jiang. et al. Maternal exposure to nanopolystyrene induces neurotoxicity in offspring through P53-mediated ferritinophagy and ferroptosis in the rat hippocampus. J NANOBIOTECHNOL. 2024 Dec;22(1):1-15 IF ;Rat. 39438901
- **[IF=8.5]** Liu-Lu Gao. et al. Acteoside suppresses hepatocellular carcinoma progression via modulation of macrophage migration inhibitory factor and mitogen-activated protein kinase proteins. INT J BIOL MACROMOL. 2025 Jun;:145579 WB ;Human. 40582652