

**bsm-60842R****[ Primary Antibody ]****Bioss**  
ANTIBODIES

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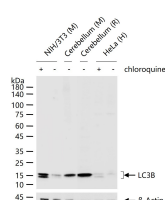
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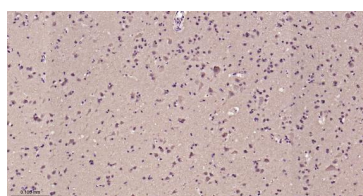
400-901-9800

**LC3B Recombinant Rabbit mAb****DATASHEET**

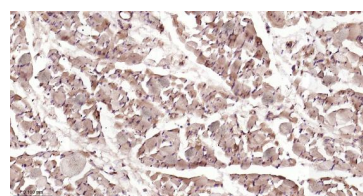
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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Host:</b> Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Isotype:</b> IgG/Kappa | <b>Applications:</b> <b>WB</b> (1:1000-2000)<br><b>IHC-P</b> (1:100-500)<br><b>IHC-F</b> (1:100-500)<br><b>IF</b> (1:100-500)<br><br><b>Reactivity:</b> Human, Mouse, Rat<br>(predicted: Chicken)<br><br><b>Predicted MW.:</b> 15 kDa<br><br><b>Observed MW.:</b> 14-17 kDa<br><br><b>Subcellular Location:</b> Cell membrane ,Cytoplasm |
| <b>Clonality:</b> Recombinant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>CloneNo.:</b> 7D10     |                                                                                                                                                                                                                                                                                                                                          |
| <b>GeneID:</b> 81631                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>SWISS:</b> Q9GZQ8      |                                                                                                                                                                                                                                                                                                                                          |
| <b>Target:</b> LC3B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                                                                                                                                                                                                                                                                                                                                          |
| <b>Immunogen:</b> A synthesized peptide derived from human LC3B: 1-110.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                                                                                                                                                                                                                                                                                                                                          |
| <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.<br>Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                           |                                                                                                                                                                                                                                                                                                                                          |
| <b>Background:</b> 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. |                           |                                                                                                                                                                                                                                                                                                                                          |

**VALIDATION IMAGES**

NIH/3T3 (M) chloroquine (50uM) for overnight, HeLa (H) chloroquine (50uM) for overnight, 25 µg total protein per lane of cell lysates (see on figure) probed with LC3B monoclonal antibody, unconjugated (bsm-60842R) 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 Human right occipital lobe; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation LC3B Monoclonal Antibody, Unconjugated (bsm-60842R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Skeletal muscle; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation LC3B Monoclonal Antibody, Unconjugated (bsm-60842R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

**SELECTED CITATIONS**

- **[IF=16]** Hao Ling. et al. Biomimetic Selenium-Encrusted Prussian Blue Nanozyme for Myocardial Infarction by Coordinated Enhancement of Mitophagy and Reactive Oxygen Species Scavenging. ACS NANO. 2026 Feb IHC ;Rat. 41665146
- **[IF=7.6]** Yu Guo. et al. USP9X suppression attenuates NLRP3 inflammasome activation and ameliorates neuroinflammatory phenotypes with motor function recovery in murine models. BRAIN BEHAV IMMUN. 2026

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

Feb;132:106215 WB,IF ;Mouse,Rat. 41381011

- **[IF=4.5]** Yunhai Hu. et al. *Listeria monocytogenes* invasion in goat brain tissues: mechanisms of blood–brain barrier disruption and regulation of apoptosis and autophagy. FRONT MICROBIOL. 2026 Mar;17:1748896 WB,IHC ;Goat. 41847201