

bs-4843R**[Primary Antibody]****LC3B Rabbit pAb****BioSS**
ANTIBODIES

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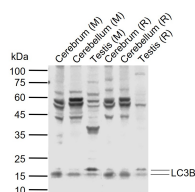
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— DATASHEET —

Host: Rabbit Clonality: Polyclonal GeneID: 67443 Target: LC3B 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.	Isotype: IgG SWISS: Q9CQV6	Applications: WB (1:500-2000) Reactivity: Human, Mouse, Rat Predicted MW.: 14 kDa Observed MW.: 15,17 kDa Subcellular Location: Cell membrane ,Cytoplasm
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— VALIDATION IMAGES —

Sample: Lane 1: Mouse Cerebrum tissue lysates
Lane 2: Mouse Cerebellum tissue lysates Lane 3:
Mouse Testis tissue lysates Lane 4: Rat Cerebrum
tissue lysates Lane 5: Rat Cerebellum tissue
lysates Lane 6: Rat Testis tissue lysates Primary:
Anti-LC3B (bs-4843R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at
1/20000 dilution Predicted band size: 14 kDa
Observed band size: 15,17 kDa

— SELECTED CITATIONS —

- **[IF=18]** Zetao Wang. et al. Nano-vibration exciter: Hypoxia-inducible factor 1 signaling pathway-mediated extracellular vesicles as bioactive glass substitutes for bone regeneration. BIOACT MATER. 2024 Oct;40:460 WB ;Mouse. 10.1016/j.bioactmat.2024.06.023
- **[IF=14.593]** Liwen Luo. et al. Injectable cartilage matrix hydrogel loaded with cartilage endplate stem cells engineered to release exosomes for non-invasive treatment of intervertebral disc degeneration. BIOACT MATER. 2022 Sep;15:29 IF

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

;Rat. 10.1016/j.bioactmat.2021.12.007

- **[IF=14.5]** Huijuan Zhang. et al. In situ autophagy regulation in synergy with phototherapy for breast cancer treatment. ACTA PHARM SIN B. 2023 Nov;; WB ;Mouse. 10.1016/j.apsb.2023.11.019
- **[IF=6.2]** Haolin Duan. et al. MT-TN mutations lead to progressive mitochondrial encephalopathy and promotes mitophagy. BBA-MOL BASIS DIS. 2024 Apr;1870:167043 WB ;Human. 38320662
- **[IF=6.048]** Pan Huang. et al. Long-term treatment of Nicotinamide mononucleotide improved Age-related Diminished Ovary Reserve through enhancing the mitophagy level of granulosa cells in mice. J Nutr Biochem. 2021 Nov;;108911 IF ;Mouse. 34801690