bs-4843R **[Primary Antibody]**

LC3B Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 67443 **SWISS:** Q9CQV6

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.

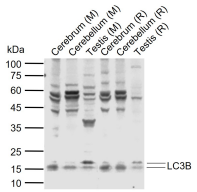
Applications: **WB** (1:200-1000)

Reactivity: Human, Mouse, Rat

Predicted MW.: 14 kDa

Subcellular Location: Cell membrane ,Cytoplasm

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=14.5]** 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=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. 2021 Dec;: IF ;Rat. 10.1016/j.bioactmat.2021.12.007

- **[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 granuloas cellsin mice. J Nutr Biochem. 2021 Nov;:108911 IF ;Mouse. 34801690