

bs-11731R**[Primary Antibody]****LC3A/B Rabbit pAb****Bioss**
ANTIBODIES

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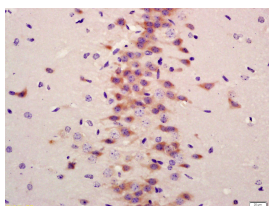
sales@bioss.com.cn

techsupport@bioss.com.cn

400-901-9800

— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)
Clonality: Polyclonal		
GeneID: 81631	SWISS: Q9GZQ8	
Target: LC3A/B		Reactivity: Mouse (predicted: Human, Rat, Pig, Sheep, Cow, Chicken, Dog)
Immunogen: KLH conjugated synthetic peptide derived from human LC3A/B: 31-121/121.		
Purification: affinity purified by Protein A		Predicted MW.: 14 kDa
Concentration: 1mg/ml		Subcellular Location: Cell membrane ,Cytoplasm
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.		

— VALIDATION IMAGES —

Tissue/cell: mouse brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-LC3A/B Polyclonal Antibody, Unconjugated(bs-11731R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

— SELECTED CITATIONS —

- **[IF=8.2]** Xiaobin Wen. et al. The PI3K/Akt-Nrf2 Signaling Pathway and Mitophagy Synergistically Mediate Hydroxytyrosol to Alleviate Intestinal Oxidative Damage. INT J BIOL SCI. 2024; 20(11): 4258–4276 WB ;Pig. 39247828
- **[IF=4.7]** Chao Wang. et al. Protective Effect of Modified Suanmei-Tang on Metabolic-Associated Fatty Liver Disease: An

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

Integrated Strategy of Network Pharmacology, Metabolomics, and Transcriptomics. DRUG DES DEV THER. 2024 Nov 12 IHC ;Mouse. 39559790

- **[IF=3.5]** Muhammad Radwa N.. et al. Empagliflozin-activated AMPK elicits neuroprotective properties in reserpine-induced depression via regulating dynamics of hippocampal autophagy/inflammation and PKC ζ -mediated neurogenesis. PSYCHOPHARMACOLOGY. 2024 Aug;;1-20 IHC ;Rat. 39158617
- **[IF=3]** Muhammad Abid Hayat. et al. Enhanced Autophagy in Damaged Laminar Tissue of Acute Laminitis Induced by Oligofructose Overloading in Dairy Cows. ANIMALS. 2023 Jan;13(15):2478 WB ;Bovine. 37570287
- **[IF=2.19]** Cui, Xiaodong, et al. "Changes of intracellular Ca²⁺ in quercetin-induced autophagy progression." Acta Biochimica et Biophysica Sinica (2015): gmv096. WB ;="Human". 26423114