

bsm-51460M**[Primary Antibody]****BioSS**
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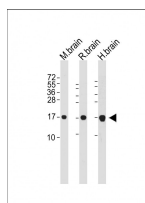
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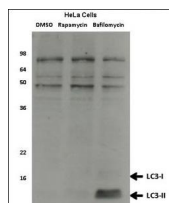
LC3 Mouse mAb**— DATASHEET —**

Host: Mouse Clonality: Monoclonal GeneID: 81631 Target: LC3 Purification: affinity purified by Protein G 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.	Isotype: IgG1, k CloneNo.: L3G1 SWISS: Q9GZQ8	Applications: WB (1:500-1000) Reactivity: Human, Mouse, Rat Predicted MW.: 13 kDa Subcellular Location: Cell membrane ,Cytoplasm
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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 —

Sample: Lane 1: Brain (Mouse) Tissue Lysate
Lane 2: Brain (Rat) Tissue Lysate Lane 3: Brain (Human) Tissue Lysate
Primary: Anti-LC3 (bsm-51460M) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution
Predicted band size: 13 kD
Observed band size: 17 kD



Sample: Human HeLa cell lysates, which were treated with rapamycin or bafilomycin overnight. Data courtesy of Dr. David Rubinsztein, Cambridge Institute for Medical Research.
Primary: Anti-LC3 (bsm-51460M) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution
Predicted band size: 13 kD
Observed band size: 13 kD

— SELECTED CITATIONS —

- **[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 WB ;Human. 34672076
- **[IF=7.7]** Yundi Wu. et al. Fluorescent hyaluronic acid nanoprodruge: A tumor-activated autophagy inhibitor for synergistic cancer therapy. INT J BIOL MACROMOL. 2024 Aug;274:133360 WB ;Mouse. 38909736
- **[IF=6.025]** Xuliang Zhang. et al. PINK1/Parkin-mediated mitophagy mitigates T-2 toxin-induced nephrotoxicity. FOOD CHEM TOXICOL. 2022 Jun;164:113078 WB ;Mouse. 35489469

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

- **[IF=2.6]** Fan Jin. et al. Quercetin alleviates kidney damage caused by mercury Chloride: The protective effects of quercetin on autophagy and inflammation were studied based on TRIM32/TLR4/LC3 pathway. TOXICON. 2024 Sep;248:108031 IHC ;Mouse. 39033964