

bs-20414R**[Primary Antibody]****LC3A/B Rabbit pAb**

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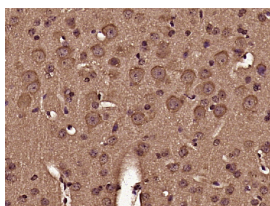
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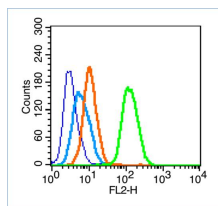
400-901-9800

— DATASHEET —

Host: Rabbit Clonality: Polyclonal GeneID: 81631 Target: LC3A/B Immunogen: KLH conjugated synthetic peptide derived from human LC3A/B: 1-50/121. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4. 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: Q9GZQ8	Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (1µg/Test)
		Reactivity: Human, Mouse (predicted: Rat, Sheep, Cow, GuineaPig, Horse, Goat)
		Predicted MW.: 14 kDa
		Subcellular Location: Cell membrane ,Cytoplasm

— VALIDATION IMAGES —

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (LC3A/B) Polyclonal Antibody, Unconjugated (bs-20414R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control (blue line): HeLa (fixed with 70% ethanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 30 min at -20°C). Primary Antibody (green line): Rabbit Anti-LC3A/B antibody (bs-20414R), Dilution: 0.2µg /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE, Dilution: 1µg /test.

— SELECTED CITATIONS —

- **[IF=7.086]** Quan-Kuo He. et al. Captan exposure disrupts ovarian homeostasis and affects oocytes quality via mitochondrial dysfunction induced apoptosis. Chemosphere. 2022 Jan;286:131625 IF ;Mouse. 34303901
- **[IF=6.331]** Maowen Chen. et al. Enhanced biocompatibility and osteogenic differentiation of mesenchymal stem cells

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

of titanium by Sr–Ga clavate double hydroxides. J Mater Chem B. 2021 Jul;; IF ;Rat. 34259279