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Rabbit Anti-LC3A/B antibody

SL11731R

Product Name:	LC3A/B
Chinese Name:	自噬微管相关蛋白轻链3A/3B抗体
Alias:	Autophagy related protein LC3 A; Autophagy related protein LC3 B; Autophagy related ubiquitin like modifier LC3 A; Autophagy related ubiquitin like modifier LC3 B; LC3; MAP1 light chain 3 like protein 1; MAP1 light chain 3 like protein 2; MAP1A/1B light chain 3 A; MAP1A/1B light chain 3 B; MAP1A/1BLC3; MAP1A/MAP1B LC3 A; MAP1A/MAP1B LC3 B; MAP1ALC3; MAP1BLC3; MAP1LC3A; MAP1LC3B; Microtubule associated protein 1 light chain 3 alpha; Microtubule associated protein 1 light chain 3 beta; Microtubule associated proteins 1A/1B light chain 3; Microtubule associated proteins 1A/1B light chain 3A; Microtubule associated proteins 1A/1B light chain 3B; MLP3A_HUMAN.
文献引用 PubMed :	**Specific References(1)**|SL11731R has been referenced in 1 publications. **[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**. PubMed:26423114
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	14kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml

immunogen:	KLH conjugated synthetic peptide derived from human LC3A/B:31-121/121
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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. **Function:** Probably involved in formation of autophagosomal vacuoles (autophagosomes). **Subunit:** 3 different light chains, LC1, LC2 and LC3, can associate with MAP1A and MAP1B proteins (By similarity). Interacts with SQSTM1 (By similarity). Interacts with TP53INP1 and TP53INP2. **Subcellular Location:** Cytoplasmic. Endomembrane system; Lipid-anchor. Cytoplasmic vesicle, autophagosome membrane; Lipid-anchor. Note: LC3B binds to the autophagic membranes. **Tissue Specificity:** Most abundant in heart, brain, liver, skeletal muscle and testis but absent in thymus and peripheral blood leukocytes. **Post-translational modifications:** The precursor molecule is cleaved by APG4B/ATG4B to form the cytosolic form, LC3-I. This is activated by APG7L/ATG7, transferred to ATG3 and conjugated to phospholipid to form the membrane-bound form, LC3-II. **Similarity:** Belongs to the MAP1 LC3 family.

SWISS:
Q9H492

Gene ID:
84557

Database links:

Entrez Gene: 81631 Human

Entrez Gene: 84557 Human

Entrez Gene: 66734 Mouse

Entrez Gene: 67443 Mouse

Entrez Gene: 362245 Rat

Entrez Gene: 64862 Rat

Omim: 601242 Human

Omim: 609604 Human

SwissProt: Q9GZQ8 Human

SwissProt: Q9H492 Human

SwissProt: Q91VR7 Mouse

SwissProt: Q9CQV6 Mouse

SwissProt: Q62625 Rat

SwissProt: Q6XVN8 Rat

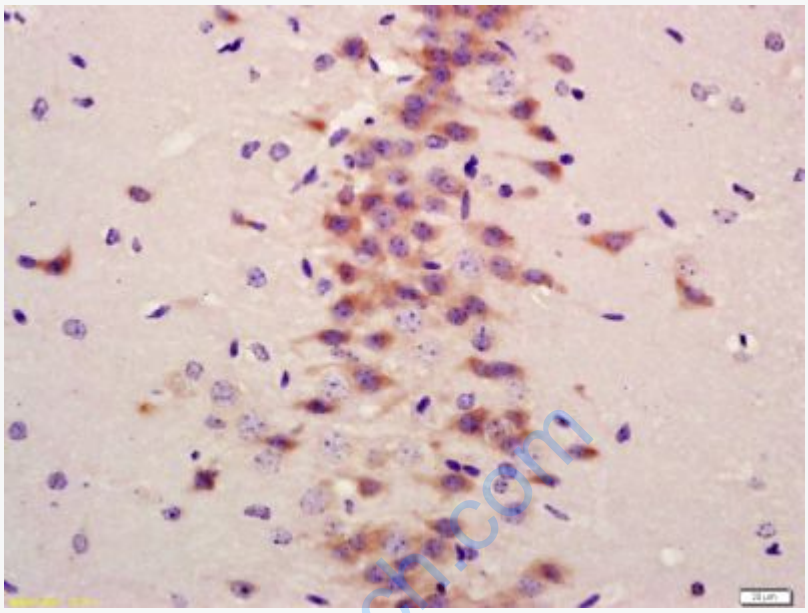
Unigene: 356061 Human

Unigene: 196239 Mouse

Unigene: 28357 Mouse

Unigene: 41412 Rat

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

Picture:	 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℃ for 20 min; Incubation: Anti-LC3A/B Polyclonal Antibody, Unconjugated(SL11731R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining