

Cat No: Kab04720

Product Particulars: anti-LC3B-Specific-antibody

Pack Size: 100µg

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Purify: Immunogen affinity purified

Host: Rabbit

Isotype: IgG

Storage: PBS with 0.02% sodium azide and 50% glycerol pH 7.3 , -20°C for 24 months (Avoid repeated freeze / thaw cycles.)

Background (Function): LC3B, also named as MAP1LC3B, MAP1A/1BLC3, belongs to the MAP1 LC3 family. It is a subunit of neuronal microtubule-associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. In cell biology, autophagy, or autophagocytosis, is a catabolic process involving the degradation of a cell's own components through the lysosomal machinery. It is a major mechanism by which a starving cell reallocates nutrients from unnecessary processes to more-essential processes. Two forms of LC3, called LC3-I (17-19kd) and -II(14-16kd), were produced post-translationally in various cells. LC3-I is cytosolic, whereas LC3-II is membrane bound. 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. The amount of LC3-II is correlated with the extent of autophagosome formation. LC3-II is the first mammalian protein identified that specifically associates with autophagosome membranes. MAP1LC3 has 3 isoforms MAP1LC3A, MAP1LC3B and MAP1LC3C. MAP1LC3A and MAP1LC3C are produced by the proteolytic cleavage after the conserved C-terminal Gly residue, like their rat counterpart, MAP1LC3B does not undergo C-terminal cleavage and exists in a single modified form. This antibody is specific to LC3B.

Immunogen: microtubule-associated protein 1 light chain 3 beta

Synonyms: LC3, LC3B, MAP1A/1BLC3, MAP1A/MAP1B LC3 B, MAP1A/MAP1B light chain 3 B, MAP1ALC3, MAP1LC3B

Calculated MW: 15kDa

Uniprot ID: Q9GZQ8

Specificity: Human, Mouse ,Rat

Tested Application: ELISA,WB,IF,IHC,FC

Recommended Dilution: WB:1:500-1:5000;IHC:1:20-1:200;IF:1:20-1:200;FC:N/A

Gene ID:

Gene Location: Cytoplasm,Cytoplasmic vesicle,Cytoskeleton,Membrane,Microtubule

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