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Basic Information		
Product Name	Anti-LC3B/MAP1LC3B antibody	
Gene Name	MAP1LC3B	
Source	Rabbit	
lsotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, IP, FCM(Intracellular), Direct ELISA	
Contents	500 ug/ml antibody with PBS $_{2}$ 0.02% NaN3, 1 mg BSA and 50% glycerol.	
Immunogen	1-125 aa	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	15-18KD	
Dilution Ratios	Western blot (WB): Immunohistochemistry in paraffin section (IHC): Immunocytochemistry/Immunofluorescence (ICC/IF): ImmunoPrecipitation (IP): Flow Cytometry(Intracellular): Direct ELISA: (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,c mins is required for the staining of formalin/paraffin section must be determined by end user.	1:500-2000 1:50-400 1:50-400 1:50 1-3 μg/1x10 ⁶ cells 1:100-1000 or PH8.0 EDTA repair liquid for 20 is.) Optimal working dilutions

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

LC3B, also named as MAP1LC3B, MAP1A/1BLC3, belongs to the MAP1 LC3 family. It is a subunit of neuronal microtubuleassociated 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 lysosomalmachinery. 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 posttranslationally 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

Product datasheet Anti-LC3B/MAP1LC3B antibody Catalog Number: PA01524-1



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C-terminal cleavage and exists in a single modified form. This antibody is specific to LC3B.

Selected Validation Data

