Product datasheet Anti-LC3B/MAP1LC3B Antibody Catalog Number: PA01524

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Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

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Basic Inform	nation	
Product Name	Anti-LC3B/MAP1LC3B Antibody	
Gene Name	MAP1LC3B	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg BSA and 50% glycerol.	
Immunogen	Peptide	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	15, 18 kDa	
Dilution Ratios	Western blot (WB): Immunohistochemistry (IHC): Immunocytochemistry/Immunofluorescence (ICC/IF): Enzyme linked immunosorbent assay (ELISA): (Boiling the paraffin sections in 10mM citrate buffer,pH6.0, mins is required for the staining of formalin/paraffin section must be determined by end user.	

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 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 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 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

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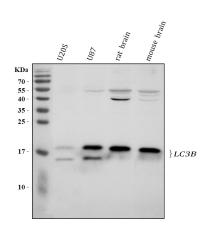
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autophagosome formation. LC3-II is the first mammalian protein identified that specifically associates with autophagosome membranes. MAP1LC3 has 3 isoforms MAP1LC3A, MAP1LC3B and MAP1LC3C. MAP1LC3A and MAP1LC3C are produced by the proteolytic cleavage 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.

Reference

Anti-LC3B/MAP1LC3B Antibody被引用在9文献中。

Selected Validation Data



Western blot analysis of anti-LC3B/MAP1LC3B antibody (PA01524). The sample well of each lane was loaded with 30 ug of sample

under reducing conditions.

Lane 1: human U2OS whole cell lysates,

Lane 2: human U87 whole cell lysates,

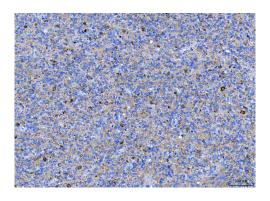
Lane 3: rat brain tissue lysates,

Lane 4: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-

LC3B/MAP1LC3B antigen affinity purified polyclonal antibody (PA01524) and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for LC3B/MAP1LC3B at approximately 15,18 kDa. The expected band size for LC3B/MAP1LC3B is at 15 kDa.



IHC analysis of LC3B/MAP1LC3B using anti-LC3B/MAP1LC3B antibody (PA01524).

LC3B/MAP1LC3B was detected in a paraffin-embedded section of human glioma tissue. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.