

LC3B Rabbit mAb

Catalog No: #49277



Package Size: #49277-1 50ul #49277-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
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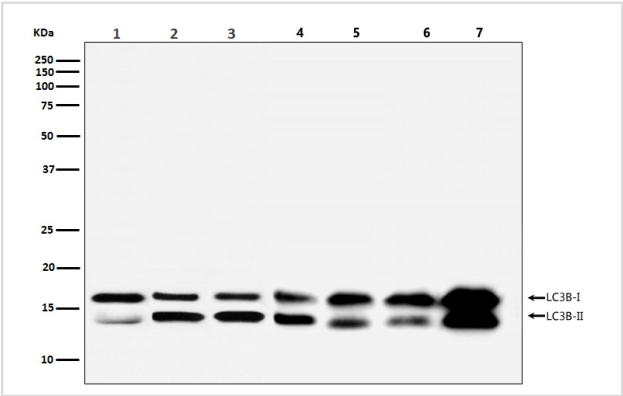
Description

Product Name	LC3B Rabbit mAb
Clone No.	JJ090-6
Purification	ProA affinity purified
Applications	WB, IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	ATG8F antibody Autophagy-related protein LC3 B antibody Autophagy-related ubiquitin-like modifier LC3 B antibody LC3B antibody LC3II antibody MAP1 light chain 3 like protein 2 antibody MAP1 light chain 3-like protein 2 antibody MAP1A/1BLC3 antibody MAP1A/MAP1B LC3 B antibody MAP1A/MAP1B light chain 3 B antibody MAP1ALC3 antibody MAP1LC3B a antibody Map1lc3b antibody Microtubule associated protein 1 light chain 3 beta antibody Microtubule-associated protein 1 light chain 3 beta antibody Microtubule-associated proteins 1A/1B light chain 3B antibody MLP3B_HUMAN antibody
Accession No.	Swiss-Prot#:Q9GZQ8
Uniprot	Q9GZQ8
GeneID	81631;
Calculated MW	14 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:1,000-1:2,000

Images



All lanes :LC3B Rabbit mAb at 1/2k dilution  
Lane 1 : Human brain lysate  
Lane 2 : RAW 264.7 cell lysate  
Lane 3 : C6 cell lysate  
Lane 4 : 293 cell lysate  
Lane 5 : THP-1 cell lysate  
Lane 6 : A431 cell lysate  
Lane 7 : SH-SY5Y cell lysate  
Secondary  
All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/10000 dilution  
  
Predicted band size: 14,16 kDa  
Observed band size: 14,16 kDa  
  
Exposure time: 130 seconds

## Background

Microtubule-associated proteins (MAPs) regulate microtubule stability and play critical roles in neuronal development and in maintaining the balance between neuronal plasticity and rigidity. MAP-light chain 3 beta (MAP-LC3 $\beta$ ) and MAP-light chain 3 alpha (MAP-LC3 $\alpha$ ) are subunits of both MAP1A and MAP1B. MAP-LC3 $\beta$ , a homolog of Apg8p, is essential for autophagy and associated to the autophagosome membranes after processing. Two forms of LC3 $\beta$ , the cytosolic LC3-I and the membrane-bound LC3-II, are produced post-translationally. LC3-I is formed by the removal of the C-terminal 22 amino acids from newly synthesized LC3 $\beta$ , followed by the conversion of a fraction of LC3-I into LC3-II. LC3 enhances fibronectin mRNA translation in ductus arteriosus cells through association with 60S ribosomes and binding to an AU-rich element in the 3' untranslated region of fibronectin mRNA. This facilitates sorting of fibronectin mRNA onto rough endoplasmic reticulum and translation. MAP LC3 $\beta$  may also be involved in formation of autophagosomal vacuoles. It is expressed primarily in heart, testis, brain and skeletal muscle.

Note: This product is for in vitro research use only