

LC3B Rabbit mAb

Catalog No: #49277

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

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Description

Product Name	LC3B Rabbit mAb
Clone No.	JJ090-6
Purification	ProA affinity purified
Applications	WB;IHC;ICC/IF;IHF;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
Calculated MW	14,16 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB 1:1000-1:2000

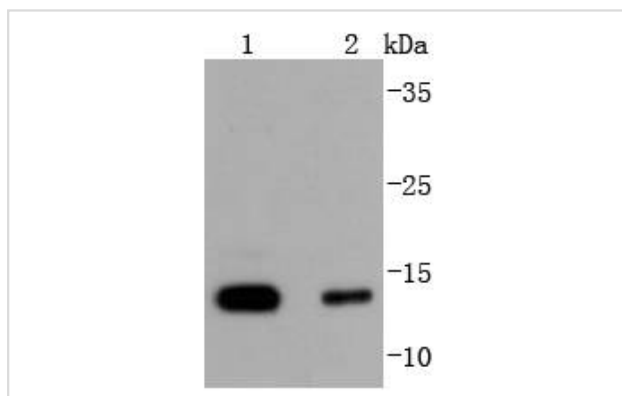
IHC 1:100-1:200

ICC/IF 1:50-1:200

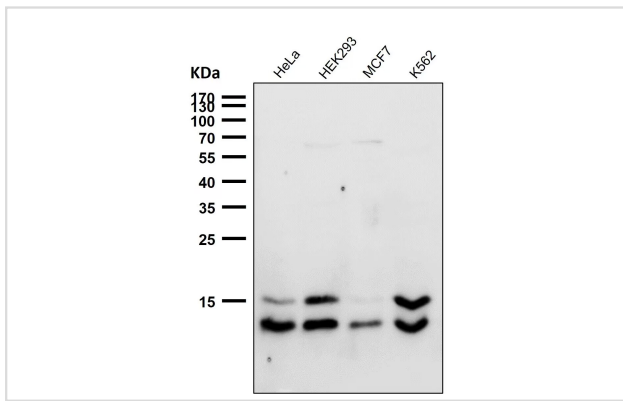
IHF 1:50-1:200

IP 1:20-1:50

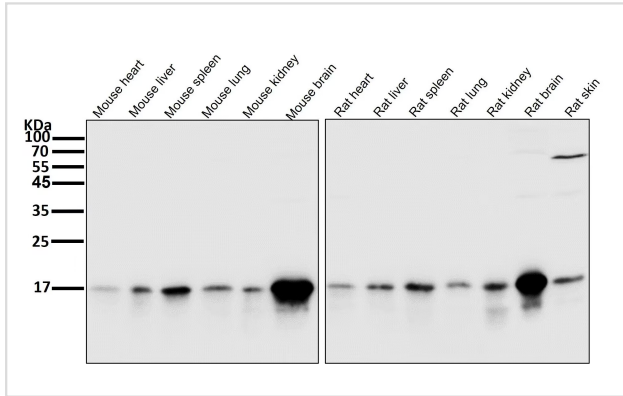
Images



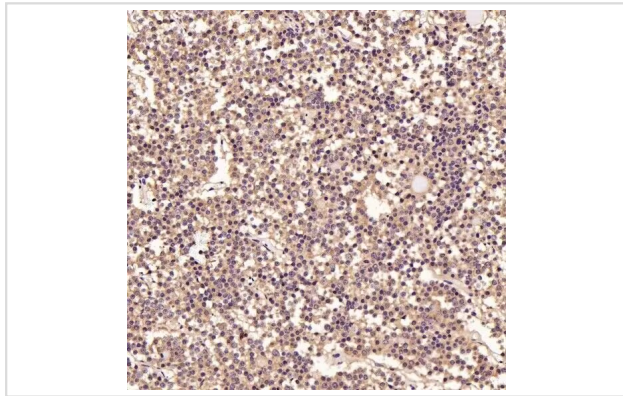
Western blot analysis of LC3B on different lysates using anti-LC3B antibody at 1/1,000 dilution. Positive control: Lane 1: Hela Lane 2: MCF-7



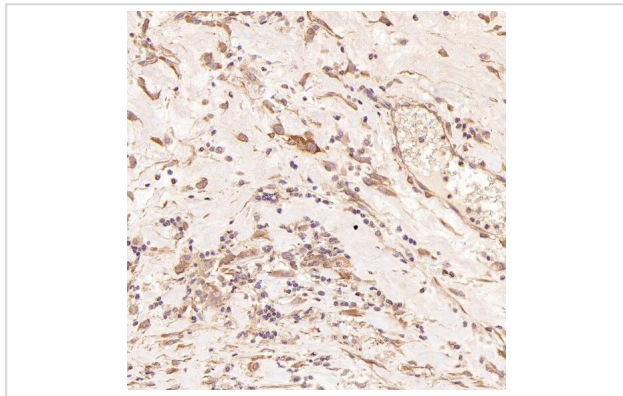
All lanes use the Antibody at 1:1000 dilution for 12 hour at 4°C.



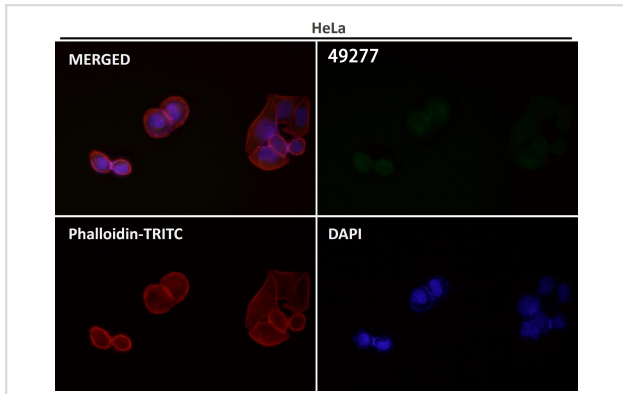
All lanes use the Antibody at 1:3000 dilution for 12 hour at 4°C.



Immunohistochemical analysis of paraffin-embedded Human pituitary tumor, using the Antibody at 1:50 dilution.



Immunohistochemical analysis of paraffin-embedded Human esophageal carcinoma, using the Antibody at 1:50 dilution.



Immunofluorescent analysis using the Antibody at 1:150 dilution.

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 β) and MAP-light chain 3 alpha (MAP-LC3 α) are subunits of both MAP1A and MAP1B. MAP-LC3 β , a homolog of Apg8p, is essential for autophagy and associated to the autophagosome membranes after processing. Two forms of LC3 β , 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 β , 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 β may also be involved in formation of autophagosomal vacuoles. It is expressed primarily in heart, testis, brain and skeletal muscle.

References

1. Gai Z et al. Farnesoid X Receptor Protects against Kidney Injury in Uninephrectomized Obese Mice. *J Biol Chem* 291:2397-411 (2016).
2. Xu TX et al. Hypoxia responsive miR-210 promotes cell survival and autophagy of endometriotic cells in hypoxia. *Eur Rev Med Pharmacol Sci* 20:399-406 (2016).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.