

MAP 1A 1B LC3 A B Antibody FITC Conjugated

Catalog No: #C05287F

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Description

Product Name	MAP 1A 1B LC3 A B Antibody FITC Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	Flow-Cyt ICC IF
Species Reactivity	Hu Ms Rt
Immunogen Description	KLH conjugated synthetic peptide aa 20-70 121 derived from human MAP LC3 Alpha
Conjugates	FITC
Target Name	MAP 1A 1B LC3 Alpha Beta
Other Names	Microtubule-associated proteins 1A B light chain 3A; Microtubule-associated proteins 1A B light chain 3B; Microtubule-associated proteins 1Beta light chain 3A; Microtubule-associated proteins 1Beta light chain 3A; MAP1B LC3 A; MAP LC3 Beta; MAP-LC3 Beta; MAP1 light chain 3-like protein 1.MAP1LC3B.M
Accession No.	Swiss-Prot#Q9H492, Q9GZQ8NCBI Gene ID54901, 84557
Uniprot	Q9H492
GeneID	84557;
Excitation Emission	494nm 518nm
Cell Localization	Cytoplasm, Cell membrane
Concentration	1mg ml
Formulation	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Application Details

Flow-Cyt=1:50-200 ICC=1:50-200 IF=1:50-200

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-LC3M 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 LC3a??, 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 3a? 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