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Datasheet for ABIN1386128

anti-MAP1LC3A/B antibody (AA 25-121)

1 Image

Overview

Quantity:	100 µL
Target:	MAP1LC3A/B
Binding Specificity:	AA 25-121
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAP1LC3A/B antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), ELISA

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human MAP LC3 Alpha
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Predicted Reactivity:	Mouse,Dog,Cow,Pig,Horse,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	MAP1LC3A/B
Alternative Name:	MAP 1A/1B LC3 Alpha/Beta (MAP1LC3A/B Products)
Background:	Synonyms: Microtubule-associated proteins 1A/B light chain 3A, Microtubule-associated

Target Details

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.MLP3A_HUMAN

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 LC3, 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.

Gene ID: 54901, 84557

UniProt: [Q9H492](#), [Q9GZQ8](#)

Application Details

Application Notes: ELISA 1:500-1000
FCM 1:20-100
IHC-P 1:200-400

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

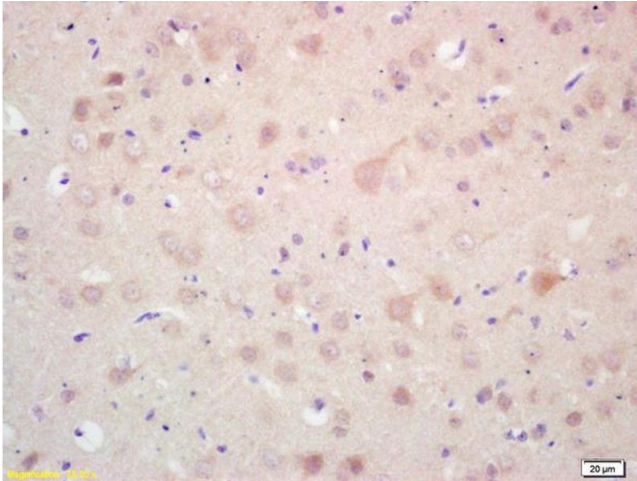
Handling

Storage: 4 °C, -20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Rabbit Anti MAP LC3 Beta Polyclonal Antibody, Unconjugated (ABIN1386128) at 1:200 followed by conjugation to the secondary antibody and DAB staining