



Rabbit Anti-MAP1LC3B monoclonal antibody, clone KK101-7 (CABT-BL8471)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

| | |
|------------------------------|------------------------------------------------------|
| Target | LC3B |
| Immunogen | Recombinant protein |
| Isotype | IgG |
| Source/Host | Rabbit |
| Species Reactivity | Human, Mouse, Rat |
| Clone | KK101-7 |
| Purification | Protein A purified. |
| Conjugate | Unconjugated |
| Applications | WB, IP |
| Molecular Weight | 14 kDa |
| Cellular Localization | Cytoplasm, Endomembrane system, Cytoplasmic vesicle. |
| Positive Control | MCF-7, Hela. |
| Format | Liquid |
| Size | 100 µl |
| Buffer | 1×TBS (pH7.4), 1% BSA, 40% Glycerol. |
| Preservative | 0.05% Sodium Azide |

Storage

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction

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.

Keywords

ATG8F;Autophagy-related protein LC3 B;Autophagy-related ubiquitin-like modifier LC3 B;LC3B;LC3II;MAP1 light chain 3 like protein 2;MAP1 light chain 3-like protein 2;MAP1A/1BLC3;MAP1A/MAP1B LC3 B;MAP1A/MAP1B light chain 3 B;MAP1ALC3;MAP1LC3B a;Map1lc3b;Microtubule associated protein 1 light chain 3 beta;Microtubule-associated protein 1 light chain 3 beta;Microtubule-associated proteins 1A/1B light chain 3B;MLP3B_HUMAN antibody
