



LC3B mouse Monoclonal Antibody(9H5)

Catalog No	YP-Ab-14258
Isotype	IgG
Reactivity	Human;Bovine
Applications	WB;IHC;IF
Gene Name	MAP1LC3B
Immunogen	Recombinant Protein of LC3B of MAP1LC3B
Specificity	LC3B protein detects endogenous levels of MAP1LC3B
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	LC3;MAP1LC3B;5P12;ATG8F;Autophagy-related ubiquitin-like modifier LC3 B; LC3B
Observed Band	14,16kD
Calculated Molecular Weight	14,16kD
Cell Pathway	Cytoplasmic vesicle, autophagosome membrane ; Lipid-anchor . Endomembrane system ; Lipid-anchor . Mitochondrion membrane ; Lipid-anchor . Cytoplasm, cytoskeleton . Cytoplasmic vesicle . LC3-II binds to the autophagic membranes. LC3-II localizes with the mitochondrial inner membrane during Parkin-mediated mitophagy (PubMed:28017329). Localizes also to discrete punctae along the ciliary axoneme. .
Tissue Specificity	Most abundant in heart, brain, skeletal muscle and testis. Little expression observed in liver.
Function	caution:PubMed:12740394 has shown that the protein is cleaved at Lys-122 but PubMed:15355958 has shown that the cleavage site is at Gly-120 as in other mammalian orthologs.,function:Probably involved in formation of autophagosomal vacuoles (autophagosomes).,PTM:The precursor molecule is cleaved by APG4B/ATG4B to form LC3-I. This is activated by APG7L/ATG7, transferred to ATG3 and conjugated to phospholipid to form LC3-II.,



similarity: Belongs to the MAP1 LC3 family., subcellular location: LC3-II binds to the autophagic membranes., subunit: 3 different light chains, LC1, LC2 and LC3, can associate with MAP1A and MAP1B proteins., tissue specificity: Most abundant in heart, brain, skeletal muscle and testis. Little expression observed in liver.,

Background

The product of this gene is a subunit of neuronal microtubule-associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. Studies on the rat homolog implicate a role for this gene in autophagy, a process that involves the bulk degradation of cytoplasmic component. [provided by RefSeq, Jul 2008],

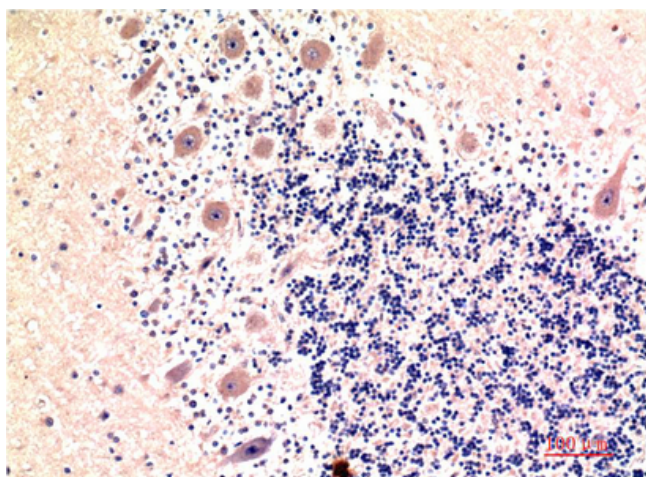
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Immunohistochemical analysis of paraffin-embedded Human Brain Tissue using LC3B Mouse mAb diluted at 1:200.