Datasheet for ABIN1449635

anti-LC3B antibody (N-Term)

2 Images

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Overview

Quantity:	0.4 mL
Target:	LC3B (MAP1LC3B)
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 1~30 amino acids surrounding T6 of Human MAP1LC3B Genename: MAP1LC3B
Isotype:	Ig Fraction
Purification:	Protein A column, followed by peptide affinity purification

Target Details

Target:	LC3B (MAP1LC3B)
Alternative Name:	LC3B (MAP1LC3B Products)
Background:	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent

Target Details

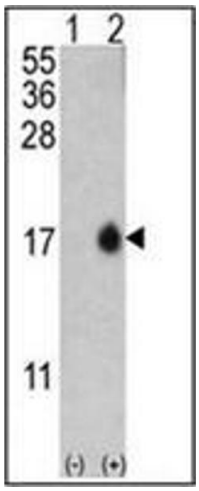
	targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole). MAP1A and MAP1B are microtubule-associated proteins which mediate the physical interactions between microtubules and components of the cytoskeleton. These proteins are involved in formation of autophagosomal vacuoles (autophagosomes). MAP1A and MAP1B each consist of a heavy chain subunit and multiple light chain subunits. MAP1LC3b is one of the light chain subunits and can associate with either MAP1A or MAP1B. The precursor molecule is cleaved by APG4B/ATG4B to form the cytosolic form, LC3-I. This is activated by APG7L/ATG7, transferred to ATG3 and conjugated to phospholipid to form the membrane-bound form, LC3-II.Synonyms: Autophagy-related protein LC3 B, Autophagy-related ubiquitin-like modifier LC3 B, MAP1A / 1B light chain 3 B, MAP1A/MAP1B, MAP1LC3B, Map1alc3, Map1lc3, Map1lc3b, Microtubule-associated protein 1 light chain 3 beta, Microtubule-associated proteins 1A/1B light chain 3B
Gene ID:	81631
NCBI Accession:	NP_073729
Pathways:	Autophagy

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

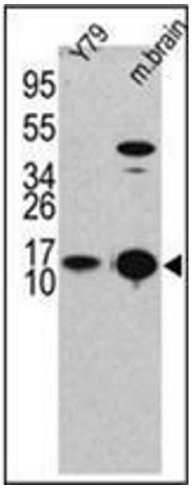
Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS containing 0.09 % (W/V) Sodium Azide as preservative
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.



Western Blotting

Image 1. Western blot analysis of MAP1LC3B (arrow) using LC3B Antibody (T6) in Y79 cell line lysates and mouse brain tissue lysates (35 µg/lane). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MAP1LC3B gene (Lane 2) (Origene Technologies).



Western Blotting

Image 2. Western blot analysis of LC3B Antibody

