

Datasheet for ABIN1449601

anti-LC3B antibody (C-Term, cleaved)



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2 Images

Overview

Quantity:	0.4 mL
Target:	LC3B (MAP1LC3B)
Binding Specificity:	AA 96-125, C-Term, cleaved
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LC3B antibody is un-conjugated
Application:	Immunofluorescence (IF), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 96~125 amino acids from the C-terminal region of Human cleaved-LC3
Isotype:	Ig Fraction
Purification:	Saturated Ammonium Sulfate precipitation followed by dialysis against PBS

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

Target Details

double-membrane bound autophagosomes which enclose the cytoplasmic constituent 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

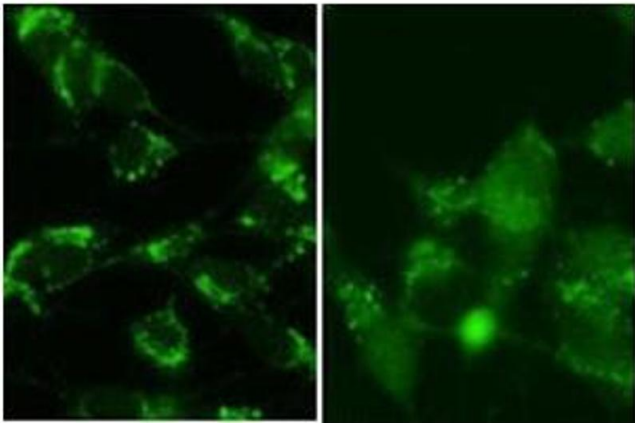
Handling

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

Handling

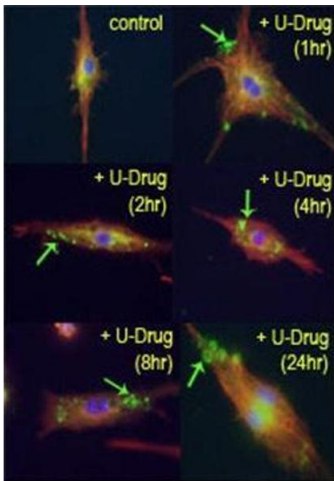
Storage Comment: Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Images



Immunofluorescence

Image 1. SY5Y cells were pretreated with 5nM bafilomycin for 24hr and fixed in methanol (left panel) or 4% of paraformaldehyde (right panel). Treatment with Cleaved-LC3B Antibody (APG8b) Cat.-No AP32168PU-N at dilution 1/100. *Data courtesy of Jianhui Zhu, MD, PhD & Charleen T. Chu, MD, PhD, University of Pittsburgh School of Medicine.*



Immunofluorescence

Image 2. Time course study of mouse leukaemic monocyte macrophage cells treated with U18666A, a drug that causes cholesterol and lipid storage in cells, thereby blocking fusion between late endosomes and lysosomes. Cleaved-LC3B Antibody (APG8b) Cat.-No AP32168PU-N detected punctuate staining indicative of autophagic vacuole or phagosome structures. *Data courtesy of Dr. Barry Boland, Department of Pharmacology, Oxford University.*