Datasheet for ABIN3031790

anti-LC3B antibody (AA 1-30)

2 Images

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Overview

Quantity:	0.2 mL
Target:	LC3B (MAP1LC3B)
Binding Specificity:	AA 1-30
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LC3B antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	A portion of amino acids 1-30 from the human protein was used as the immunogen for this LC3B antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Bovine
Purification:	Purified

Target Details

Target:	LC3B (MAP1LC3B)
Alternative Name:	LC3B (MAP1LC3B Products)
Background:	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic

Target Details

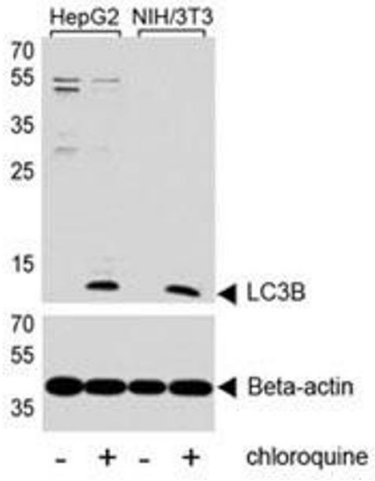
	constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane 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.
UniProt:	Q9GZQ8
Pathways:	Autophagy

Application Details

Application Notes:	Titration of the LC3B antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,Immunofluorescence: 1:25
Restrictions:	For Research Use only

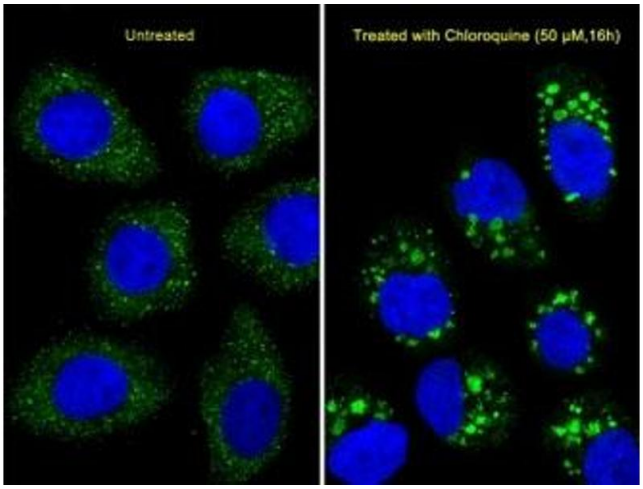
Handling

Format:	Liquid
Buffer:	In 1X PBS pH 7.4 with 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the LC3B antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



Western Blotting

Image 1. Western blot analysis of lysate from human HepG2 and mouse NIH3T3 cell line, untreated or treated with chloroquine (50uM) using LC3B antibody at 1:1000.



Immunofluorescence

Image 2. Immunofluorescent analysis of U251 cells using LC3B antibody. U251 cells(right) were treated with Chloroquine (50 uM,16h). Ab was diluted at 1:25 dilution. Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary Ab (green). DAPI was used as a nuclear counterstain (blue).