

Datasheet for ABIN3031786  
**anti-LC3B antibody (AA 89-122)**



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2 Images

## Overview

|                      |                                                           |
|----------------------|-----------------------------------------------------------|
| Quantity:            | 0.4 mL                                                    |
| Target:              | LC3B (MAP1LC3B)                                           |
| Binding Specificity: | AA 89-122                                                 |
| Reactivity:          | Human, Mouse                                              |
| Host:                | Rabbit                                                    |
| Clonality:           | Polyclonal                                                |
| Conjugate:           | This LC3B antibody is un-conjugated                       |
| Application:         | ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC) |

## Product Details

|                             |                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
| Immunogen:                  | A portion of amino acids 89-122 from the human protein was used as the immunogen for this LC3B antibody. |
| Isotype:                    | Ig Fraction                                                                                              |
| Cross-Reactivity (Details): | Expected species reactivity: Bovine                                                                      |
| Purification:               | Antigen affinity purified                                                                                |

## Target Details

|                   |                                                                                          |
|-------------------|------------------------------------------------------------------------------------------|
| Target:           | LC3B (MAP1LC3B)                                                                          |
| Alternative Name: | LC3B ( <a href="#">MAP1LC3B Products</a> )                                               |
| Background:       | MAP1A and MAP1B each consist of a heavy chain subunit and multiple light chain subunits. |

## Target Details

MAP1LC3B is one of the light chain subunits and can associate with either MAP1A or MAP1B. It is a Ubiquitin-like modifier involved in formation of autophagosomal vacuoles (autophagosomes). LC3B plays a role in mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production.

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.\. Immunofluorescence: 1:10-1:100,Immunocytochemistry: 1:10-1:50

Restrictions: For Research Use only

## Handling

Format: Liquid

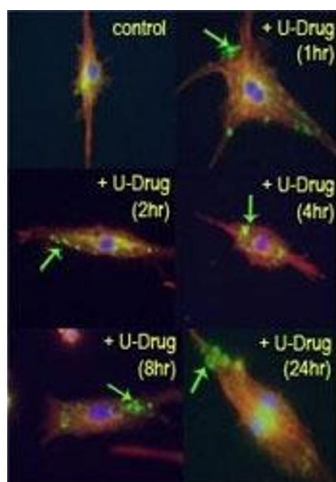
Buffer: In 1X PBS pH 7.4 with 0.09 % sodium azide

Preservative: Sodium azide

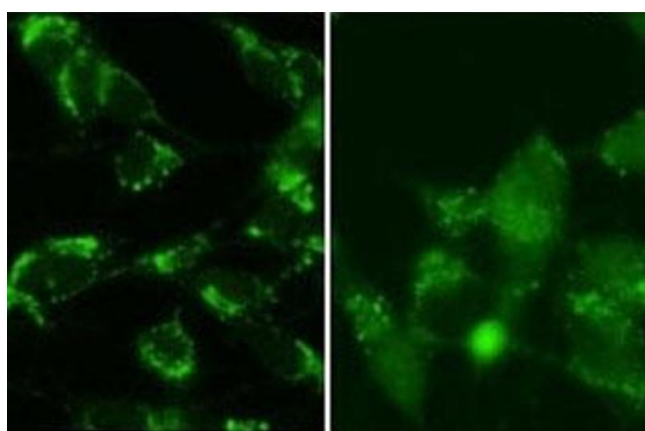
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Aliquot the LC3B antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



**Image 1.** Mouse leukaemic monocyte macrophage cells treated with drug U18666A, causing cholesterol and lipid storage in cells, blocking fusion between late endosomes and lysosomes. LC3B antibody detected punctuate staining indicative of autophagic vacuole or phagosome structures.



#### Immunofluorescence

**Image 2.** SY5Y cells were pretreated with 5nM bafilomycin for 24hr and fixed in methanol (left panel) or 4% of paraformaldehyde (right panel). Testing with LC3B antibody at dilution 1:100. Data courtesy of Jianhui Zhu, MD, PhD & Charleen T. Chu, MD, PhD, University of Pittsburgh School of Medicine.