

Datasheet for ABIN388473

**anti-MAP1LC3A antibody (N-Term)**

4 Images

77 Publications

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## Overview

Quantity:	200 µL
Target:	MAP1LC3A
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAP1LC3A antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	This LC3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human LC3.
Clone:	RB7481
Isotype:	IgG
Predicted Reactivity:	B
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	MAP1LC3A
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## Target Details

Alternative Name: LC3 ([MAP1LC3A 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 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.

Molecular Weight: 14688

Gene ID: 81631

NCBI Accession: [NP\\_073729](#)

UniProt: [Q9GZQ8](#)

Pathways: [Autophagy](#)

## Application Details

Application Notes: IF: 1:100. WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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.

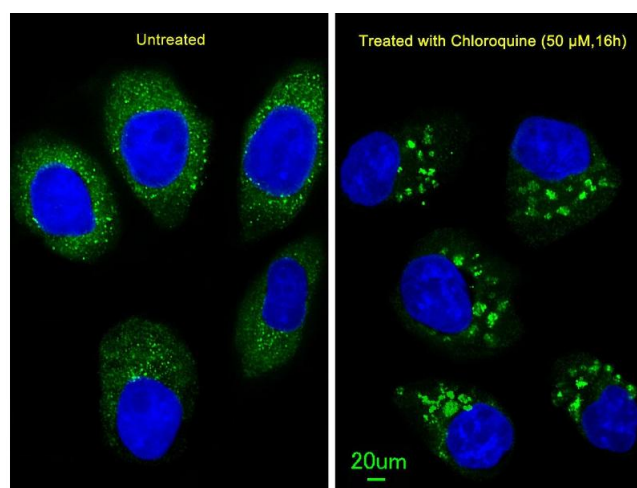
## Handling

Handling Advice:	Avoid freeze-thaw cycles.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots.
Expiry Date:	6 months

## Publications

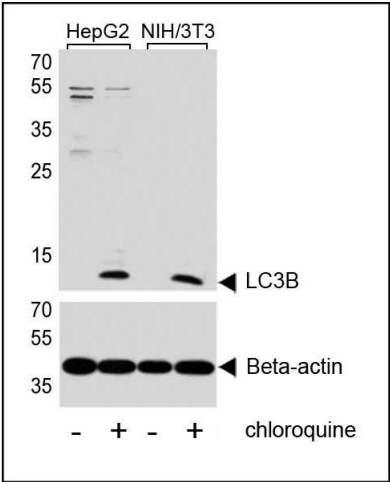
Product cited in:	<p>Wu, Li, Fang, Yi, Chen, Long, Gao, Wei, Chen: "Investigation of synergistic mechanism and identification of interaction site of aldose reductase with the combination of gigantol and syringic acid for prevention of diabetic cataract." in: <b>BMC complementary and alternative medicine</b>, Vol. 16, Issue 1, pp. 286, (2017) (<a href="#">PubMed</a>).</p> <p>Guo, Wang, Liu, Myatt, Sun: "Induction of PGF2? synthesis by cortisol through GR dependent induction of CBR1 in human amnion fibroblasts." in: <b>Endocrinology</b>, Vol. 155, Issue 8, pp. 3017-24, (2014) (<a href="#">PubMed</a>).</p> <p>There are more publications referencing this product on: <a href="#">Product page</a></p>
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## Images



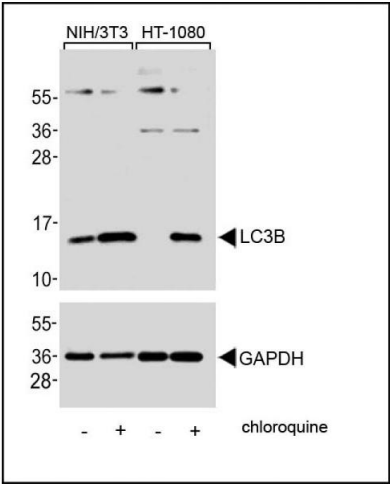
### Immunofluorescence

**Image 1.** Immunofluorescent analysis of cells, using LC3 Antibody (G8B) (N-term) 1802a. cells(right) were treated with Chloroquine (50 μM,16h). 1802a was diluted at 1:100 dilution. Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). DAPI was used to stain the cell nuclear (blue).



#### Western Blotting

**Image 2.** Western blot analysis of lysates from HepG2, mouse NIH/3T3 cell line, untreated or treated with chloroquine, 50uM, using LC3 Antibody (G8B) (N-term) 1802a (upper) or Beta-actin (lower).



#### Western Blotting

**Image 3.** Western blot analysis of lysates from NIH/3T3, HT-1080 cell line, untreated or treated with chloroquine, 50μ M, using LC3 Antibody (G8B) 1802a (upper) or GDH(lower).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN388473.