

Datasheet for 600-401-CQ6**MAP1LC3B Antibody****Overview**

Description:	Anti-MAP1LC3B (RABBIT) Antibody - 600-401-CQ6
Item No.:	600-401-CQ6
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Microtubule-associated proteins (MAPs) regulate microtubule stability and play critical roles in neuronal development and plasticity (1). MAP1LC3B belongs to the MAP1 LC3 family and it includes 3 different light chains, LC1, LC2 and LC3 (2). MAP1LC3B is involved in formation of autophagosomal vacuoles (autophagosomes) (3). It is most abundant in heart, brain, skeletal muscle and testis. MAP1LC3B is essential for autophagy and associated to the autophagosome membranes after processing (4).
Synonyms:	MAP1LC3B Antibody, LC3B, ATG8F, MAP1LC3B-a, MAP1A/1BLC3, MAP1ALC3, Autophagy-related protein LC3 B
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	MAP1LC3B
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-MAP1LC3B antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid peptide near the N-terminus of human MAP1LC3B.

Purity/Specificity: Anti-MAP1LC3B antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. MAP1LC3B antibody is human, mouse and rat reactive. Multiple isoforms MAP1LC3B are known to exist. MAP1LC3B antibody is predicted to not cross-react with MAP1LC3A or MAP1LC3C

Relevant Links:

- [UniProtKB - Q9GZQ8](#)
- [GeneID - 81631](#)
- [NCBI - NP_073729](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-MAP1LC3B Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 15 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:20,000

IF: 20 µg/mL

IHC: 5 µg/mL

WB: 1-2 mg/ml

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/ml by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

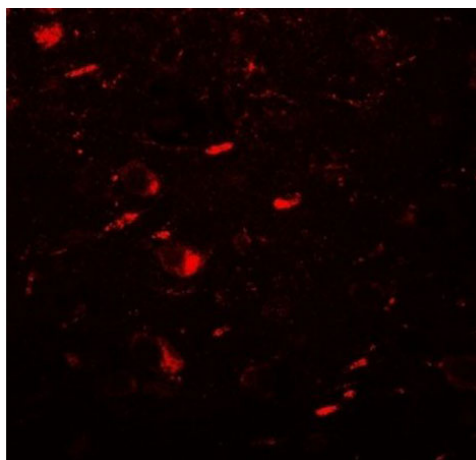
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

Expiration:

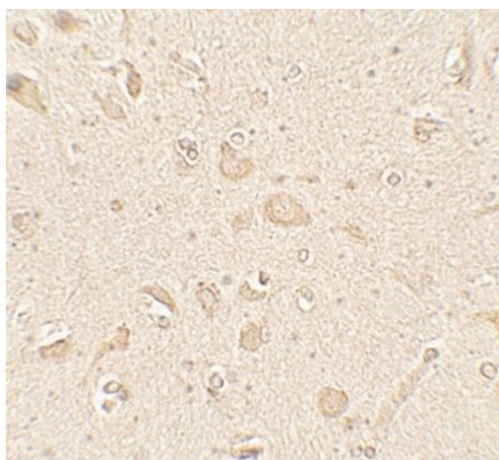
Expiration date is one (1) year from date of receipt.

Images**Immunofluorescence Microscopy**

Immunofluorescence of MAP1LC3B.

Tissue: human brain tissue.

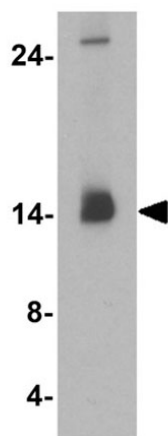
Primary Antibody: MAP1LC3B antibody at 20 µg/mL.

**Immunohistochemistry**

Immunohistochemistry of MAP1LC3B.

Tissue: human brain tissue.

Primary Antibody: MAP1LC3B antibody at 5 µg/mL.

**Western Blot**

Western blot of MAP1LC3B.

Load: human brain tissue lysate.

Primary Antibody: MAP1LC3B antibody at 1 µg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.