

Datasheet for 600-401-CQ5**MAP1LC3A Antibody****Overview**

Description:	Anti-MAP1LC3A (RABBIT) Antibody - 600-401-CQ5
Item No.:	600-401-CQ5
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Microtubule-associated proteins (MAPs) regulate microtubule stability and play critical roles in neuronal development and plasticity (1). MAP1LC3A belongs to the MAP1 LC3 family of proteins that form mature complexes with MAP1A and MAP1B which are thought to be important in the formation and development of axons and dendrites (2). MAP1LC3A is one of three isoforms of MAP1LC3, the mammalian homolog of yeast ATG8, an essential autophagy protein. These isoforms exhibit distinct expression patterns and MAP1LC3A, like MAP1LC3A but not MAP1LC3B, is post-translationally modified, suggesting the three isoforms may have different physiological functions (3).
Synonyms:	MAP1LC3A Antibody, LC3, LC3A, ATG8E, MAP1ALC3, MAP1BLC3Autophagy-related protein LC3 A
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	MAP1LC3A
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-MAP1LC3A antibody was prepared from whole rabbit serum produced by repeated immunizations with a 10 amino acid peptide near the N-terminus of human MAP1LC3A.

Purity/Specificity: Anti-MAP1LC3A antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. MAP1LC3A antibody is human specific. At least two isoforms of MAP1LC3A are known to exist. MAP1LC3A antibody is predicted to not cross-react with MAP1LC3B or MAP1LC3C.

Relevant Links:

- [UniProtKB - Q9H492](#)
- [GeneID - 84557](#)
- [NCBI - NP_852610](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-MAP1LC3A 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 14 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 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

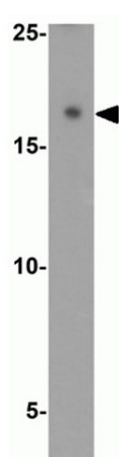
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

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

Images

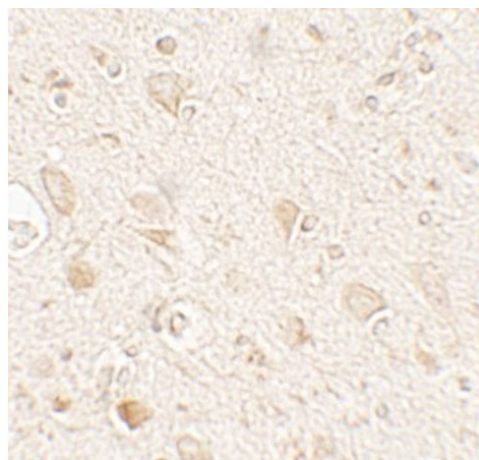


Western Blot

Western blot of MAP1LC3A.

Load: 293 cell lysate.

Primary Antibody: MAP1LC3A antibody at 1 µg/ml.

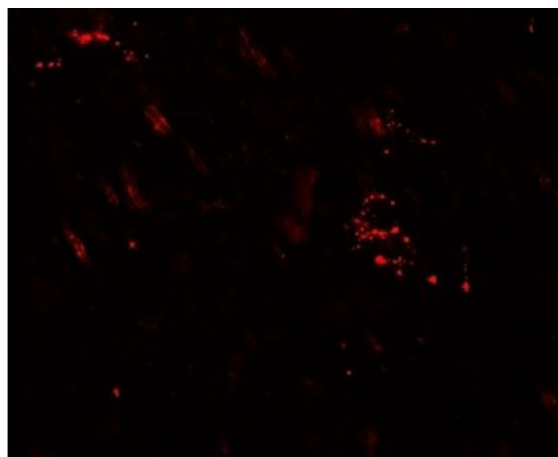


Immunohistochemistry

Immunohistochemistry of MAP1LC3A.

Tissue: human brain tissue.

Primary Antibody: MAP1LC3A antibody at 5 µg/mL.

**Immunofluorescence Microscopy**

Immunofluorescence of MAP1LC3A.

Tissue: human brain tissue.

Primary Antibody: MAP1LC3A antibody at 20 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.