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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

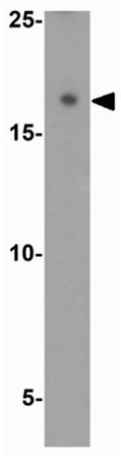
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

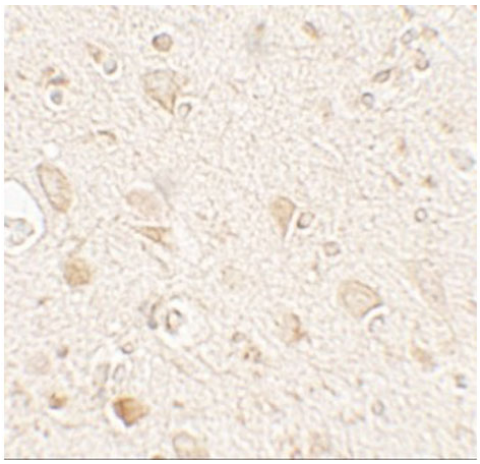
Shipping Condition:	Dry Ice

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.

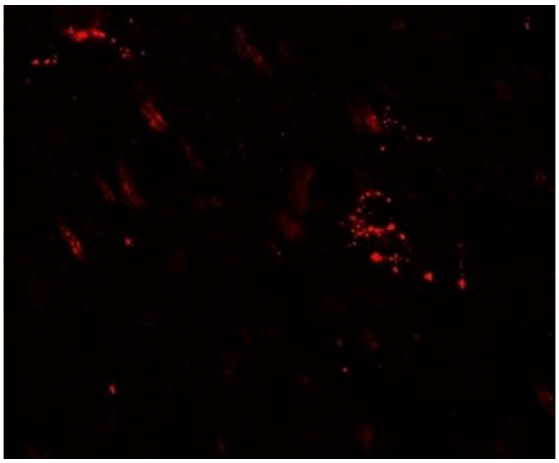
Images



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.

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