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Datasheet for 600-401-CQ4

MAP1LC3 Antibody

Overview

Description:	Anti-MAP1LC3 (RABBIT) Antibody - 600-401-CQ4
Item No.:	600-401-CQ4
Size:	100 µg
Applications:	ELISA, 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). MAP1LC3 is a subfamily of three related proteins belonging to the MAP1 LC3 family and it includes MAP1LC3A, MAP1LC3B, and MAP1LC3C (2). MAP1LC3 is the mammalian homolog of yeast ATG8 and is essential for autophagy and associated with the autophagosome membranes after processing (3). The three isoforms exhibit distinct expression patterns and both MAP1LC3A and MAP1LC3B but not MAP1LC3B, are post-translationally modified, suggesting the three isoforms may have different physiological functions (4).
Synonyms:	MAP1LC3 Antibody, LC3, LC3A, ATG8E, MAP1ALC3, MAP1BLC3Autophagy-related protein LC3 A
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	MAP1LC3A
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-MAP1LC3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 12 amino acid peptide near the internal region of human MAP1LC3A.

Purity/Specificity:	Anti-MAP1LC3 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. MAP1LC3 antibody is human, mouse and rat reactive. Multiple isoforms MAP1LC3 are known to exist. MAP1LC3 antibody is predicted to detect MAP1LC3A, MAP1LC3B, and MAP1LC3C.
Relevant Links:	• UniProtKB - Q9H492 • GeneID - 84557 • NCBI - NP_115903

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-MAP1LC3 Antibody has been tested for use in ELISA, Western Blotting, and Immunohistochemistry. 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:	1:5000-1:10000
IHC:	5 µg/mL
WB:	0.5 - 1 µg/ml

Formulation

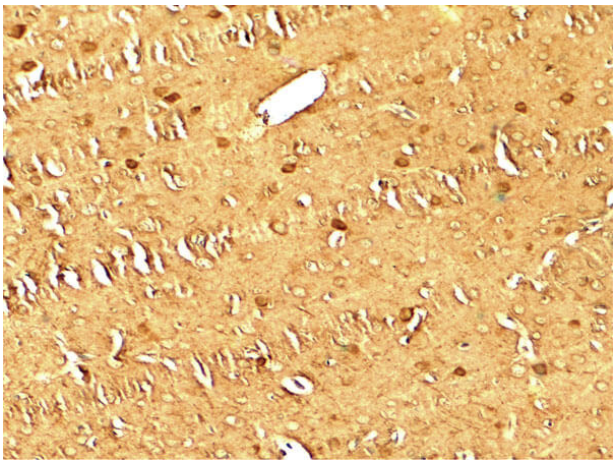
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

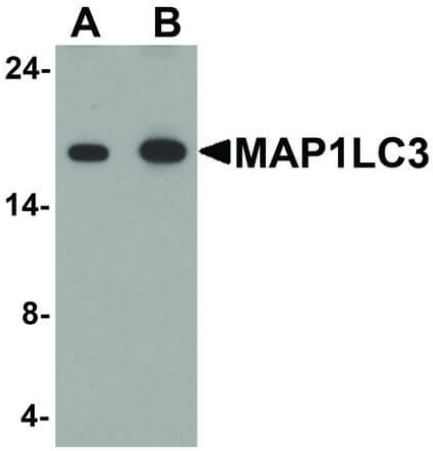
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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



Immunohistochemistry
Immunohistochemistry of Rabbit anti-MAP1LC3 antibody. Tissue: rat brain. Primary antibody: MAP1LC3 antibody at 5 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:5,000. Localization: MAP1LC3 is nuclear. Staining: MAP1LC3 as precipitated brown signal.



Western Blot
Western Blot of Rabbit anti-MAP1LC3 antibody. Lane A: human brain tissue lysate at 1 µg/mL. Lane B: human brain tissue lysate at 2 µg/mL. Primary antibody: MAP1LC3 antibody overnight at 4℃. Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 13 kDa, 18 kDa for MAP1LC3.

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