ARG54669
anti-LC3C antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes LC3C
Tested Reactivity	Hu
Tested Application	ELISA, ICC/IF, IHC-P, WB
Specificity	MAP1LC3C antibody is human, mouse and rat reactive. Multiple isoforms MAP1LC3C are known to exist. MAP1LC3C antibody is predicted to not cross-react with MAP1LC3A or MAP1LC3B.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	LC3C
Immunogen	Synthetic peptide (18 aa) within the last 50 aa of Human MAP1LC3C.
Conjugation	Un-conjugated
Alternate Names	Microtubule-associated proteins 1A/1B light chain 3C; MAP1A/MAP1B light chain 3 C; ATG8J; Microtubule-associated protein 1 light chain 3 gamma; MAP1 light chain 3-like protein 3; MAP1A/MAP1B LC3 C; Autophagy-related protein LC3 C; LC3C; Autophagy-related ubiquitin-like modifier LC3 C

Application Instructions

Application table

Application	Dilution
ELISA	Assay-Dependent
ICC/IF	20 µg/mL
IHC-P	Assay-Dependent
WB	1 - 2 µg/ml

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Human Brain Tissue Lysate
Observed Size	16 kDa

Properties

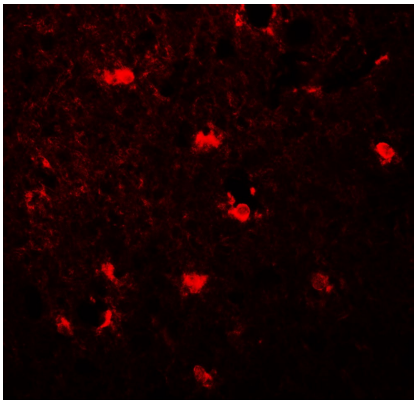
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide
Preservative	0.02% Sodium azide

Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

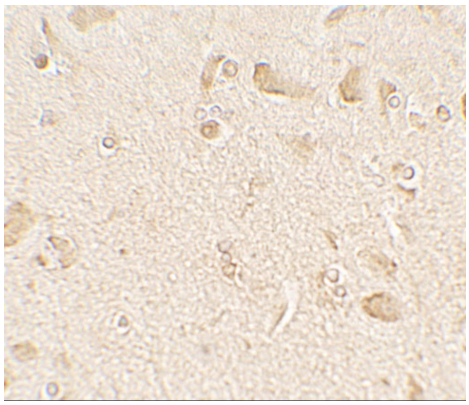
Database links	GeneID: 440738 Human Swiss-port # Q9BXW4 Human
Gene Symbol	MAP1LC3C
Gene Full Name	microtubule-associated protein 1 light chain 3 gamma
Background	Microtubule-associated proteins (MAPs) regulate microtubule stability and play critical roles in neuronal development and plasticity (1). MAP1LC3C 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). MAP1LC3C is one of three isoforms of MAP1LC3, the mammalian homolog of yeast ATG8, an essential autophagy protein. These isoforms exhibit distinct expression patterns and MAP1LC3C, like MAP1LC3A but not MAP1LC3B, is post-translationally modified, suggesting the three isoforms may have different physiological functions (3). |
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	17 kDa
PTM	The precursor molecule is cleaved by 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 (PubMed:15187094). The Legionella effector RavZ is a deconjugating enzyme that produces an ATG8 product that would be resistant to reconjugation by the host machinery due to the cleavage of the reactive C-terminal glycine.

Images



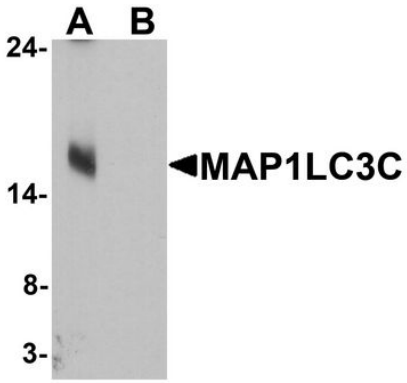
ARG54669 anti-MAP1LC3C antibody ICC/IF image

Immunofluorescence: human brain tissue stained with ARG54669 anti-MAP1LC3C antibody at 20 µg/ml.



ARG54669 anti-MAP1LC3C antibody IHC image

Immunohistochemistry: human brain tissue stained with ARG54669 anti-MAP1LC3C antibody at 5 µg/ml.



ARG54669 anti-MAP1LC3C antibody WB image

Western blot: human brain tissue lysate stained with ARG54669 anti-MAP1LC3C antibody at 1 µg/ml in (A) the absence and (B) the presence of blocking peptide.