

MAP1LC3A / LC3A Antibody (aa1-50)
Rabbit Polyclonal Antibody
Catalog # ALS15239**Specification**

MAP1LC3A / LC3A Antibody (aa1-50) - Product Information

Application	WB, IHC
Primary Accession	Q9H492
Reactivity	Human, Mouse, Rat, Zebrafish, Opossum, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	14kDa KDa

MAP1LC3A / LC3A Antibody (aa1-50) - Additional Information**Gene ID** 84557**Other Names**

Microtubule-associated proteins 1A/1B light chain 3A, Autophagy-related protein LC3 A, Autophagy-related ubiquitin-like modifier LC3 A, MAP1 light chain 3-like protein 1, MAP1A/MAP1B light chain 3 A, MAP1A/MAP1B LC3 A, Microtubule-associated protein 1 light chain 3 alpha, MAP1LC3A

Target/Specificity

Human MAP1LC3A

Reconstitution & Storage

Store at 4°C for short term applications. For long term storage, aliquot and store at -20°C.

Precautions

MAP1LC3A / LC3A Antibody (aa1-50) is for research use only and not for use in diagnostic or therapeutic procedures.

MAP1LC3A / LC3A Antibody (aa1-50) - Protein Information**Name** MAP1LC3A ([HGNC:6838](#))**Function**

Ubiquitin-like modifier involved in formation of autophagosomal vacuoles (autophagosomes) (PubMed:20713600, PubMed:24290141). While LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation (PubMed:20713600). Through its interaction with the reticulophagy receptor TEX264, participates in the remodeling of subdomains of the endoplasmic reticulum into autophagosomes upon nutrient stress, which then fuse with lysosomes for endoplasmic reticulum turnover (PubMed:31006538, PubMed:31006537).

Cellular Location

Cytoplasmic vesicle, autophagosome membrane; Lipid-anchor. Endomembrane system; Lipid-anchor. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q91VR7}. Note=LC3-II binds to the autophagic membranes.

Tissue Location

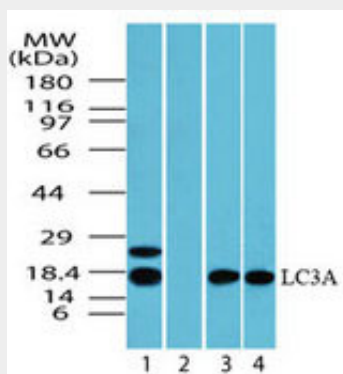
Most abundant in heart, brain, liver, skeletal muscle and testis but absent in thymus and peripheral blood leukocytes

MAP1LC3A / LC3A Antibody (aa1-50) - Protocols

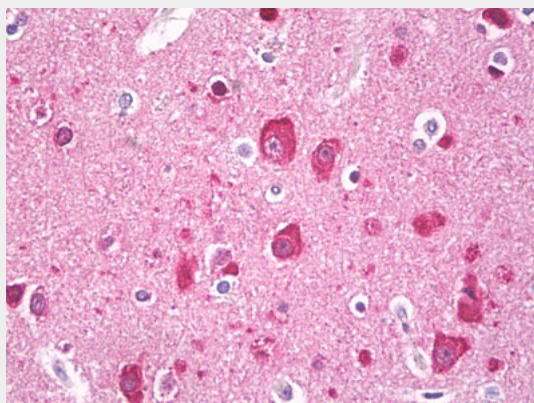
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MAP1LC3A / LC3A Antibody (aa1-50) - Images



Western blot of LC3A in human brain lysate in the 1) absence and 2) presence of immunizing...



Anti-LC3 antibody IHC of human brain, cortex neurons.

MAP1LC3A / LC3A Antibody (aa1-50) - Background

Ubiquitin-like modifier involved in formation of autophagosomal vacuoles (autophagosomes). Whereas LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation.

MAP1LC3A / LC3A Antibody (aa1-50) - References

He H.,et al.J. Biol. Chem. 278:29278-29287(2003).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Deloukas P.,et al.Nature 414:865-871(2001).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.