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MAP1LC3A / LC3A Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS16781

Specification

MAP1LC3A / LC3A Antibody (N-Terminus) - Product Information

Application	**IHC, IF, WB**
Primary Accession	Q9H492
Other Accession	84557
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**14272**

MAP1LC3A / LC3A Antibody (N-Terminus) - Additional Information

Gene ID 84557

Other Names
MAP1LC3A, ATG8E, LC3, LC3A, MAP1BLC3, MAP1A/1B light chain 3 A, MAP1A/MAP1B LC3 A, MAP1A/MAP1B light chain 3 A, MAP1ALC3

Target/Specificity
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.

Reconstitution & Storage
PBS, 0.02% sodium azide. Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

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

MAP1LC3A / LC3A Antibody (N-Terminus) - Protein Information

Name MAP1LC3A

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:<a

href="http://www.uniprot.org/citations/31006538" target="_blank">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.

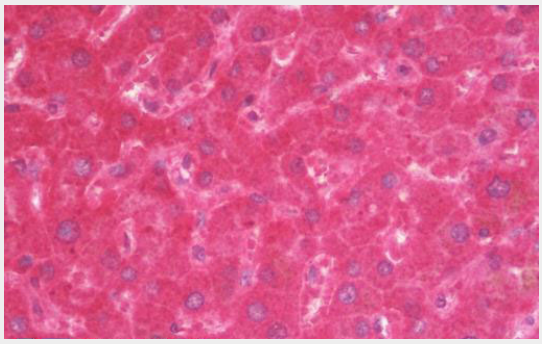
Tissue Location
Most abundant in heart, brain, liver, skeletal muscle and testis but absent in thymus and peripheral blood leukocytes

MAP1LC3A / LC3A Antibody (N-Terminus) - Protocols

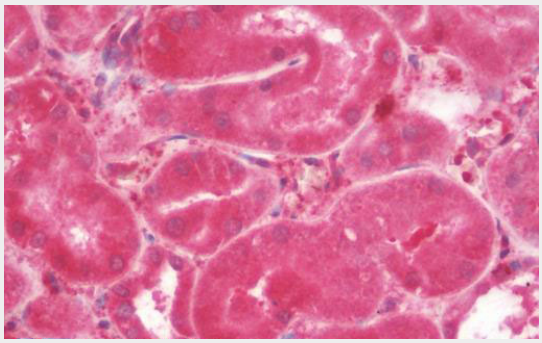
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MAP1LC3A / LC3A Antibody (N-Terminus) - Images

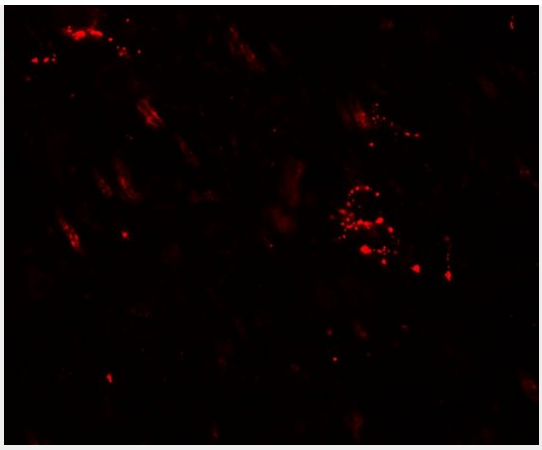


Anti-MAP1LC3A / LC3A antibody IHC staining of human liver.

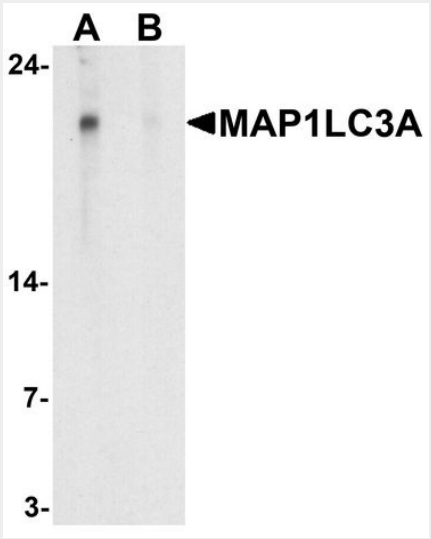


Anti-MAP1LC3A / LC3A antibody IHC staining of human kidney.

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Immunofluorescence of MAP1LC3A in human brain tissue with MAP1LC3A antibody at 20 µg/mL.



Western blot analysis of MAP1LC3A in HeLa cell lysate with MAP1LC3A antibody at 1 ug/ml in (A)...

MAP1LC3A / LC3A Antibody (N-Terminus) - 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 (N-Terminus) - 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.