

ARG51300 anti-LC3A antibody

Package: 100 μl, 50 μl Store at: -20°C

Summary

| Product DescriptionRabbit Polyclonal antibody recognizes LC3ATested ReactivityHu, Ms, RatTested ApplicationICC/IF, IHC-P, WBHostRabbitClonalityPolyclonalIsotypeIgGTarget NameLC3AImmunogenPeptide sequence around aa.5~10 (R-P-F-K-Q) derived from Human LC3A.ConjugationUn-conjugatedAlternate NamesMAP1A/MAP1B light chain 3 A; MAP1BLC3; LC3; MAP1 light chain 3 alpha; MAP1ALC3; Microtubule-associated protein 1 light chain 3 alpha; MAP1ALC3; Microtubule-associated protein 3A; LC3A; ATG8E; Autophagy-related ubiquitin-like modifier LC3 A | | |
|--|---------------------|--|
| Tested ApplicationICC/IF, IHC-P, WBHostRabbitClonalityPolyclonalIsotypeIgGTarget NameLC3ASpeciesHumanImmunogenPeptide sequence around aa.5~10 (R-P-F-K-Q) derived from Human LC3A.ConjugationUn-conjugatedAlternate NamesMAP1A/MAP1B light chain 3 A; MAP1BLC3; LC3; MAP1 light chain 3.4]LC3A; ATG8E; Autophagy-related ubiquitin-like | Product Description | Rabbit Polyclonal antibody recognizes LC3A |
| HostRabbitClonalityPolyclonalIsotypeIgGTarget NameLC3ASpeciesHumanImmunogenPeptide sequence around aa.5~10 (R-P-F-K-Q) derived from Human LC3A.ConjugationUn-conjugatedAlternate NamesMAP1A/MAP1B light chain 3 A; MAP1BLC3; LC3; MAP1 light chain 3-like protein 1; MAP1A/MAP1B LC3 A; Autophagy-related protein LC3 A; Microtubule-associated protein 1 light chain 3 alpha; MAP1ALC3; Microtubule-associated protein 1 light chain 3 A; LC3A; ATG8E; Autophagy-related ubiquitin-like | Tested Reactivity | Hu, Ms, Rat |
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| SpeciesHumanImmunogenPeptide sequence around aa.5~10 (R-P-F-K-Q) derived from Human LC3A.ConjugationUn-conjugatedAlternate NamesMAP1A/MAP1B light chain 3 A; MAP1BLC3; LC3; MAP1 light chain 3-like protein 1; MAP1A/MAP1B LC3 A; Autophagy-related protein LC3 A; Microtubule-associated protein 1 light chain 3 alpha; MAP1ALC3; Microtubule-associated protein 1A/1B light chain 3A; LC3A; ATG8E; Autophagy-related ubiquitin-like | Isotype | lgG |
| ImmunogenPeptide sequence around aa.5~10 (R-P-F-K-Q) derived from Human LC3A.ConjugationUn-conjugatedAlternate NamesMAP1A/MAP1B light chain 3 A; MAP1BLC3; LC3; MAP1 light chain 3-like protein 1; MAP1A/MAP1B LC3 A; Autophagy-related protein LC3 A; Microtubule-associated protein 1 light chain 3 alpha; MAP1ALC3; Microtubule-associated proteins 1A/1B light chain 3A; LC3A; ATG8E; Autophagy-related ubiquitin-like | Target Name | LC3A |
| ConjugationUn-conjugatedAlternate NamesMAP1A/MAP1B light chain 3 A; MAP1BLC3; LC3; MAP1 light chain 3-like protein 1; MAP1A/MAP1B LC3 A; Autophagy-related protein LC3 A; Microtubule-associated protein 1 light chain 3 alpha; MAP1ALC3; Microtubule-associated proteins 1A/1B light chain 3A; LC3A; ATG8E; Autophagy-related ubiquitin-like | Species | Human |
| Alternate NamesMAP1A/MAP1B light chain 3 A; MAP1BLC3; LC3; MAP1 light chain 3-like protein 1; MAP1A/MAP1B LC3 A; Autophagy-related protein LC3 A; Microtubule-associated protein 1 light chain 3 alpha; MAP1ALC3; Microtubule-associated proteins 1A/1B light chain 3A; LC3A; ATG8E; Autophagy-related ubiquitin-like | Immunogen | Peptide sequence around aa.5~10 (R-P-F-K-Q) derived from Human LC3A. |
| A; Autophagy-related protein LC3 A; Microtubule-associated protein 1 light chain 3 alpha; MAP1ALC3; Microtubule-associated proteins 1A/1B light chain 3A; LC3A; ATG8E; Autophagy-related ubiquitin-like | Conjugation | Un-conjugated |
| | Alternate Names | A; Autophagy-related protein LC3 A; Microtubule-associated protein 1 light chain 3 alpha; MAP1ALC3; Microtubule-associated proteins 1A/1B light chain 3A; LC3A; ATG8E; Autophagy-related ubiquitin-like |

Application Instructions

| Application table | Application | Dilution |
|-------------------|---|--|
| | ICC/IF | 1:100 - 1:200 |
| | IHC-P | Assay-dependent |
| | WB | 1:500 - 1:1000 |
| Application Note | * The dilutions indicate recomm should be determined by the sc | nended starting dilutions and the optimal dilutions or concentrations ientist. |

Properties

| Form | Liquid |
|---------------------|--|
| Purification | Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic peptide. Antibodies were purified by affinity-chromatography using epitope-specific peptide. |
| Buffer | PBS (without Mg2+ and Ca2+, pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 50% Glycerol |
| 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. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw |

Note

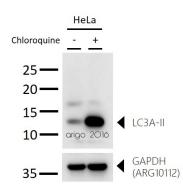
cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

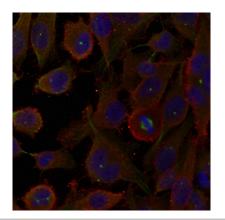
| Gene Symbol | MAP1LC3A |
|----------------|--|
| Gene Full Name | microtubule-associated protein 1 light chain 3 alpha |
| Background | Probably involved in formation of autophagosomal vacuoles (autophagosomes). |
| Function | Ubiquitin-like modifier involved in formation of autophagosomal vacuoles (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. [UniProt] |
| Highlight | Related Antibody Duos and Panels: |
| | ARG30273 LC3A and LC3B Antibody Duo |
| | Related products: |
| | LC3A antibodies; LC3A Duos / Panels; Anti-Rabbit IgG secondary antibodies; |
| | Related news: |
| | Understanding Your Cells: Choose the right markers |
| | Freeze! Scientists found a way to stop tumor migration |
| | A non-autophatic role of Atg9a in necrosis and developmental bone formation |
| Research Area | Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody |
| Calculated Mw | 14 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. Phosphorylation at Ser-12 by PKA inhibits conjugation to phosphatidylethanolamine (PE). Interaction with MAPK15 reduces the inhibitory phosphorylation and increases autophagy activity. |

Images



ARG51300 anti-LC3A antibody WB image

Western blot: 30 μg of HeLa untreated or treated with CQ (50 $\mu M)$ and stained with ARG51300 anti-LC3A antibody at 1:1000 dilution.



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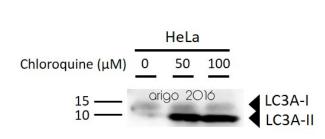
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ARG51300 anti-LC3A antibody ICC/IF image

Immunofluorescence: methanol-fixed HeLa cells stained with anti-LC3A antibody ARG51300.

ARG51300 anti-LC3A antibody WB image

Western blot: 30 μg of HeLa cell lysate stained with ARG51300 anti-LC3A antibody at 1:500 dilution.



ARG51300 anti-LC3A antibody WB image

Western blot: 30 μg of HeLa cells untreated or treated with Chloroquine at 50 μM or 100 μM (18 hr). The blots stained with ARG51300 anti-LC3A antibody at 1:500 dilution.