

Anti-MAP1LC3A Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

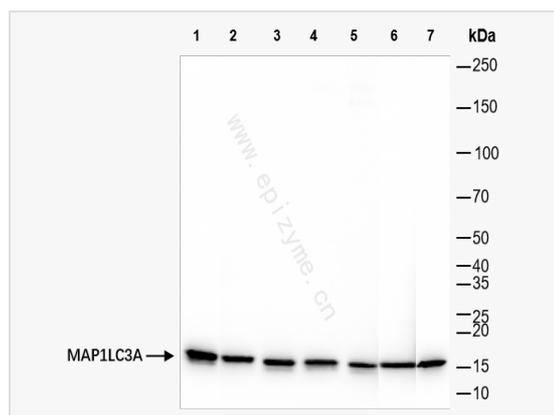
Catalog # R013968

Product Information

| | |
|-------------|---|
| Application | WB, ELISA, IF (Cell)/ICC |
| Reactivity | Mouse, Human, Rat |
| Dilution | WB 1:1,000~1:2,000; IF 1:100~1:200 |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone No. | 59O19F62 |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | A synthesized peptide derived from human MAP1LC3A |
| Format | Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3. |
| Storage | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-MAP1LC3A Rabbit mAb [59O19F62] is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

| | |
|-------------------|---|
| Synonyms | ATG8E, Autophagy related protein LC3 A, Autophagy related ubiquitin like modifier LC3 A, Autophagy-related protein LC3 A, Autophagy-related ubiquitin-like modifier LC3 A, LC3, LC3A, MAP1 light chain 3 like protein 1, MAP1 light chain 3-like protein 1, MAP1A/1B light chain 3 A, MAP1A/MAP1B LC3 A, MAP1A/MAP1B light chain 3 A, MAP1ALC3, MAP1BLC3, Map1lc3a, Microtubule associated proteins 1A/1B light chain 3, Microtubule-associated protein 1 light chain 3 alpha, Microtubule-associated proteins 1A and 1B, light chain 3, Microtubule-associated proteins 1A/1B light chain 3A, MLP3A_HUMAN. |
| Calculated MW | Calculated MW: 14 kDa; Observed MW: 16 kDa |
| Uniprot ID | Q9H492 |
| Gene ID | 84557 |
| Background | Autophagy marker Light Chain 3 (LC3) was originally identified as a subunit of microtubule-associated proteins 1A and 1B (termed MAP1LC3), and subsequently found to contain similarity to the yeast protein Apg8/Aut7/Cvt5 critical for autophagy. Three human LC3 isoforms (LC3A, LC3B, and LC3C) undergo post-translational modifications during autophagy. Cleavage of LC3 at the carboxy terminus immediately following synthesis yields the cytosolic LC3-I form. |
| Cellular Location | Cytoplasm > cytoskeleton. Endomembrane system. Cytoplasmic vesicle > autophagosome membrane. 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. |



Western Blot - Anti-MAP1LC3A Rabbit mAb [59O19F62]

All lanes: R013968 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates

Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates

Lane 6: Rat heart whole tissue lysates

Lane 7: Mouse kidney whole tissue lysates

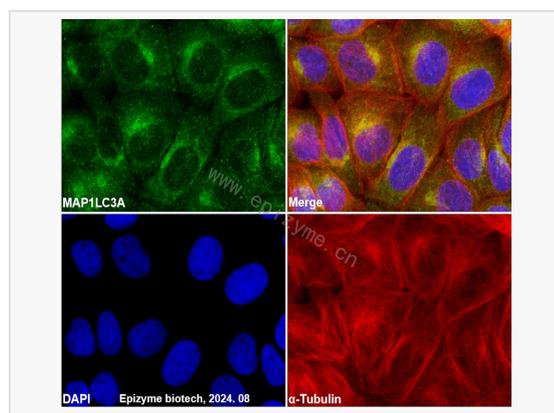
Lysates/proteins at 10 μ g per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 14 kDa

Observed band size: 16 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-MAP1LC3A Rabbit mAb [59O19F62]

Sample: A431 cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R013966 at 1:100 dilution and α -tubulin Mouse Monoclonal

Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and

Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).