

Anti-LC3B Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

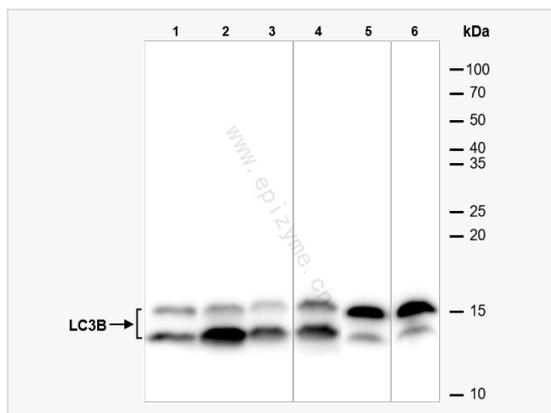
Catalog # R013940

Product Information

| | |
|-------------|---|
| Application | WB, ELISA, IHC-P/IF (Tissue-P), IF (Cell)/ICC |
| Reactivity | Mouse, Rat, Human |
| Dilution | WB 1:1,000~1:4,000; IHC-P 1:100~1:200; IF 1:100~1:200 |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone No. | 95F45F38 |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | A synthesized peptide derived from human LC3B |
| 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-LC3B Rabbit mAb [95F45F38] is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

| | |
|-------------------|---|
| Synonyms | ATG8F, Autophagy-related protein LC3 B, Autophagy-related ubiquitin-like modifier LC3 B, LC3B, LC3II, MAP1 light chain 3 like protein 2, MAP1 light chain 3-like protein 2, MAP1A/1BLC3, MAP1A/MAP1B LC3 B, MAP1A/MAP1B light chain 3 B, MAP1ALC3, MAP1LC3B a, Map1lc3b, Microtubule associated protein 1 light chain 3 beta, Microtubule-associated protein 1 light chain 3 beta, Microtubule-associated proteins 1A/1B light chain 3B, MLP3B_HUMAN. |
| Calculated MW | Calculated MW: 14 kDa, 16 kDa; Observed MW: 14 kDa, 16 kDa |
| Uniprot ID | Q9GZQ8, Q9CQV6, Q62625 |
| Gene ID | 81631, 67443, 64862 |
| Background | The product of this gene is a subunit of neuronal microtubule-associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. Studies on the rat homolog implicate a role for this gene in autophagy, a process that involves the bulk degradation of cytoplasmic component. [provided by RefSeq, Jul 2008] |
| Cellular Location | Cytoplasm > cytoskeleton. Endomembrane system. Cytoplasmic vesicle > autophagosome membrane. LC3-II binds to the autophagic membranes. |
| Tissue Location | Most abundant in heart, brain, skeletal muscle and testis. Little expression observed in liver. |



Western Blot - Anti-LC3B Rabbit mAb [95F45F38]

All lanes: R013940 at 1:4,000 dilution

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

Lane 2: MCF-7 (Human breast adenocarcinoma epithelial cell) whole cell lysates

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

Lane 4: SW620 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 5: Rat muscle whole tissue lysates

Lane 6: Balb/c mouse brain whole tissue lysates

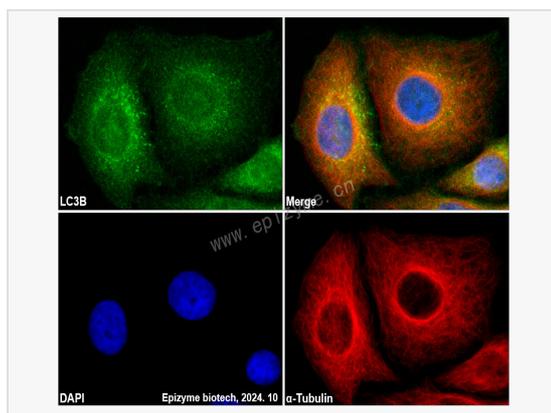
Lysates/proteins at 10 µg per lane.

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

Predicted band size: 14 kDa, 16 kDa

Observed band size: 14 kDa, 16 kDa

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



Immunofluorescence - Anti-LC3B Rabbit mAb [95F45F38]

Sample: HeLa cells

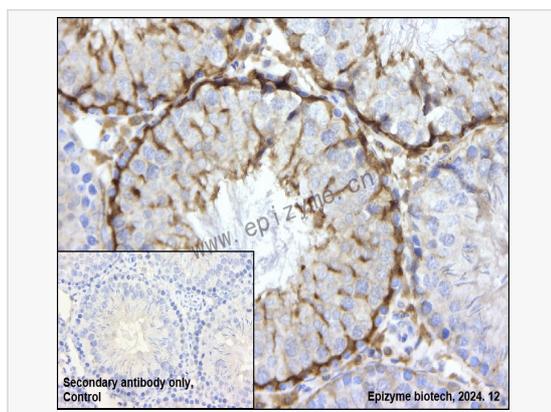
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R013940 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).



Immunohistochemistry - Anti-LC3B Rabbit mAb [95F45F38]

Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R013940 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.