

## Anti-LC3B MAP1LC3B Rabbit Monoclonal Antibody

Catalog Number: M01524

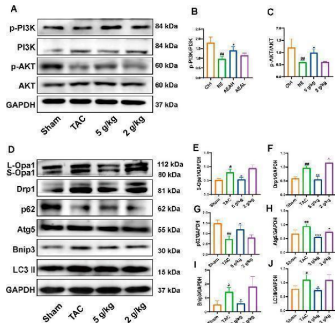
### Overview

Product Name	Anti-LC3B MAP1LC3B Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-LC3B MAP1LC3B Rabbit Monoclonal Antibody catalog # M01524. Tested in WB, ICC/IF, IP applications. This antibody reacts with Human, Mouse, Rat.
Application	IP, IF, ICC, WB
Clonality	Monoclonal IEC-13
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9GZQ8

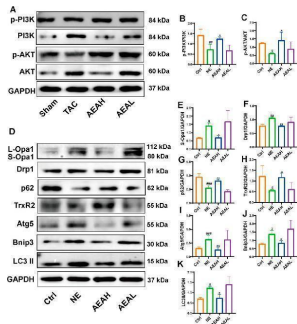
### Technical Details

Immunogen	A synthesized peptide derived from human LC3B
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000 IHC 1:50-200 ICC/IF 1:50-200 IP 1:50

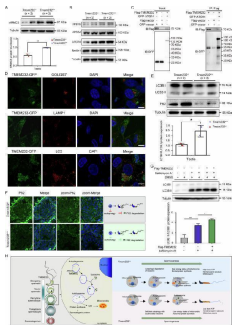
## Anti-LC3B MAP1LC3B Rabbit Monoclonal Antibody (M01524) Images



AEA improved CHF via PI3K/AKT/Bnip3 axis. (A) Representative images of PI3K/AKT axis. (B, C) The phosphorylation level of PI3K and AKT. (D) Representative images of Opa1, Drp1, Bnip3, p62, Atg5 and LC3II. (E-J) The expression level of Opa1, Drp1, Bnip3, p62, Atg5 and LC3II. (n = 3). Index in PubMed under a CC BY license. PMID: 40206063

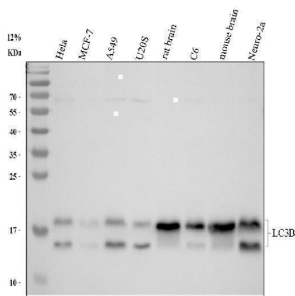


AEA improved NE-induced injuries via PI3K/AKT/Bnip3 axis. (A) Representative images of PI3K/AKT axis in H9c2 cells. (B, C) The phosphorylation level of PI3K and AKT. (D) Representative images of Opa1, Drp1, TrxR2, Bnip3, p62, Atg5 and LC3II in cells. (E-K) The expression level of Opa1, Drp1, TrxR2, Bnip3, p62, Atg5 and LC3II in H9c2 cells. (n = 3). Index in PubMed under a CC BY license. PMID: 40206063

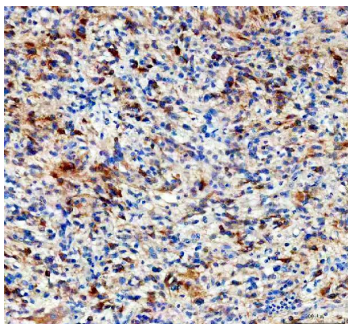


TMEM232 functions in autophagy in testis. A Western blotting analysis for the comparison of ARMC3 protein levels between Tmem232 -/- (n = 2) and Tmem232 +/+ (n = 2) testes and sperms at 2-months-old. alpha-Tubulin served as a loading control. The corresponding optical density readings for each image are shown. The representative image of biological duplicates is shown. B Western blotting analysis revealed the protein levels of four subunits (VPS15, VPS34, ATG14, and Beclin1) of PIK3C3-C1 complex in the testes of 2-month-old Tmem232 +/+ (n = 2) and Tmem232 -/- (n = 2) male mice. alpha-Tubulin served as a loading control. The representative image of biological duplicates is shown. C Co-immunoprecipitation assay results revealed the interaction between the TMEM232 and ATG14 protein in cells. Anti-Flag beads were used for immunoprecipitation. Anti-Flag and anti-GFP antibodies were used for western blotting analysis. The results shown are representative of three independent experiments. The representative image of biological duplicates is shown. D TMEM232-GFP was partly colocalized with LC3 in HeLa cells. Subcellular localization of target proteins (red) was probed with an anti-GOLGI97 antibody (upper panel, marker of Golgi apparatus), an anti-LAMP1 antibody (middle panel, marker of lysosome), and an anti-LC3 antibody (lower panel, marker of autophagosome). Cell nuclei were counterstained with DAPI. Scale bars, 10 um. E The absence of TMEM232 in mice resulted in the accumulation of P62 and LC3. Tmem232 +/+ (n = 2) and Tmem232 -/- (n = 2) testes were separated and prepared for western blotting analysis. alpha-Tubulin served as a loading control. The corresponding optical density readings for each image are shown. The representative image of

biological duplicates is shown. F Immunofluorescence staining of the P62 protein performed on frozen sections of Tmem232 +/+ ( n = 2) and Tmem232 -/- ( n = 2) testes. Blue, DAPI; green, P62. Scale bars, 20 um. G Western blotting analysis of LC3B protein levels in HeLa cells after Flag-TMEM232 overexpression treatment with or without bafilomycin A1 (BafA1, 50 nM) treatment. HeLa cells were pretreated with Baf-A1 for 1 h and transfected with p-TMEM232×3FLAG-Myc-CMV-24 plasmid for 24 h. alpha-Tubulin served as a loading control. The corresponding optical density readings for each image are shown below. The results shown are representative of three independent experiments. The representative image of biological duplicates is shown. H A proposed model for the assumption that TMEM232 is involved in autophagy to regulate sperm formation in mice. Index in PubMed under a CC BY license. PMID: 39516485

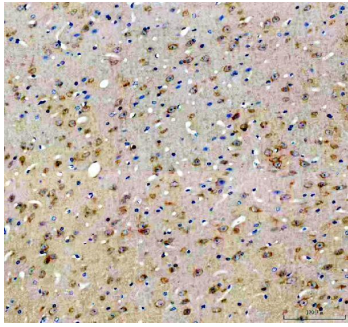


Western blot analysis of LC3B using anti-LC3B antibody (M01524). Electrophoresis was performed on a 12% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HeLa whole cell lysates, Lane 2: human MCF-7 whole cell lysates, Lane 3: human A549 whole cell lysates, Lane 4: human U2OS whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat C6 whole cell lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse Neuro-2a whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-LC3B antigen affinity purified monoclonal antibody (Catalog # M01524) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for LC3B at approximately 15, 18 kDa. The expected band size for LC3B is at 15 kDa.

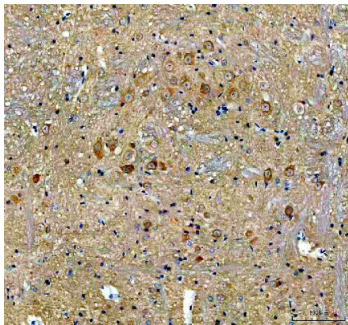


IHC analysis of LC3B using anti-LC3B antibody (M01524). LC3B was detected in a paraffin-embedded section of human glioma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-LC3B Antibody (M01524) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

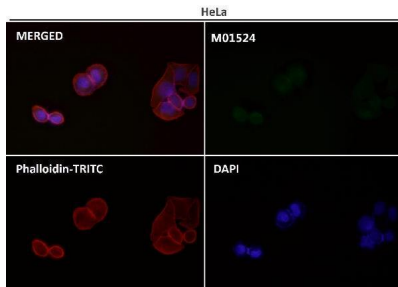
IHC analysis of LC3B using anti-LC3B antibody (M01524). LC3B was detected in a paraffin-embedded section of mouse



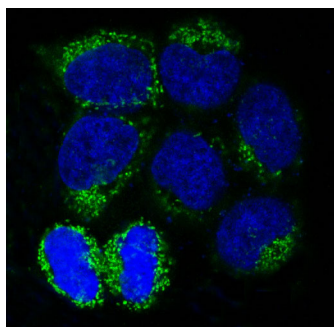
brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-LC3B Antibody (M01524) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of LC3B using anti-LC3B antibody (M01524). LC3B was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-LC3B Antibody (M01524) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



Immunofluorescent analysis using the Antibody at 1:150 dilution.



Immunofluorescent analysis of HeLa cells treated with choroquine, using LC3B Antibody.

## 4 Publications Citing This Product

1. PubMed ID: -, Zhang Tao, Xiaoqing Zhou, Yan Zhang, Wenfeng Pu, Yi Yang, Fuxia Wei, Qian Zhou, Lin Zhang, Zhonghan Du, Ji Wu, "Xi Lei San Attenuates Dextran Sulfate Sodium-Induced Colitis in Rats and TNF-alpha-Stimulated Colitis in CACO2 Cells: Involvement of the NLRP3 Inflammasome and Autophagy", *Mediators of Inflammation*, vol. 2021, Article ID 1610251, 12 pages, 2021. <https://doi.org/10.1155/2021/1610251>
2. PubMed ID: -, Xiaodong Zhou, Hongsheng Ouyang, Daxin Pang et al. Pathological Alterations in the Gastrointestinal Tract of a Porcine Model of DMD, 08 March 2021, PREPRINT (Version 1) available at Research Square [<https://doi.org/10.21203/rs.3.rs-267849/v1>]
3. PubMed ID: 28031531, Overendocytosis of superparamagnetic iron oxide particles increases apoptosis and triggers autophagic cell death in

human osteosarcoma cell under a spinning magnetic field

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