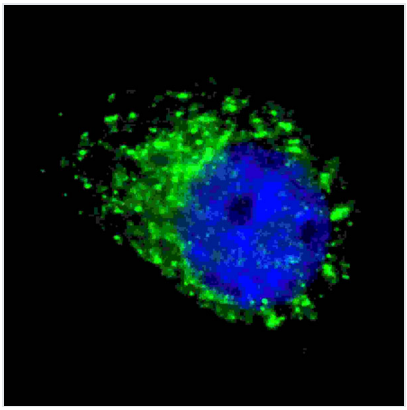
MAPG8a/b Antibody – Rabbit Polyclonal

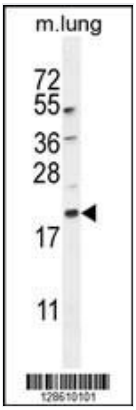
PRODUCT OVERVIEW

Product Name	MAPG8a/b, Polyclonal Antibody
Full Product Name	MAPG8a/b (MAP1LC3A/B, MAP1LC3B, MAP1ALC3, Microtubule-associated proteins 1A/1B light chain 3B, Autophagy-related protein LC3 B, Autophagy-related ubiquitin-like modifier LC3 B, MAP1 light chain 3-like protein 2, MAP1A/MAP1B light chain 3 B, Microtubule-a
Product Gene Name	anti-MAPG8a/b antibody
Product Synonym Gene Name	MAP1LC3B
Product Synonym Names	MAP1LC3A/B; MAP1LC3B; MAP1ALC3; Microtubule-associated proteins 1A/1B light chain 3B; Autophagy-related protein LC3 B; Autophagy-related ubiquitin-like modifier LC3 B; MAP1 light chain 3-like protein 2; MAP1A/MAP1B light chain 3 B; Microtubule-associated protein 1 light chain 3 beta
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	125
Chromosome Location	Chromosome: 16; NC_000016.9 (87423157..87438380). Location: 16q24.2
OMIM	609604
3D Structure	ModBase 3D Structure for Q9GZQ8
Immunogen	Cleaved-APG8a/b antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 109-138 amino acids from human Cleaved-APG8a/b.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-MAPG8a/b antibody	Antibodies; Microtubule-associated Proteins
Applications Tested/Suitable for anti-MAPG8a/b antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-MAPG8a/b antibody	IHC: 1:50-100 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-MAPG8a/b antibody	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.

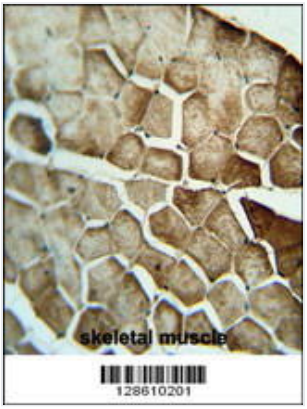
Product References and Citations for anti-MAPG8a/b antibody	Rouschop, K.M., et al. J. Clin. Invest. 120(1):127-141(2010). Kirkin, V., et al. Mol. Cell 33(4):505-516(2009). Othman, E.Q., et al. J. Clin. Lab. Anal. 23(4):249-258(2009). Liu, Q., et al. Ai Zheng 27(1):25-29(2008). Komatsu, M., et al. Cell 131(6):1149-1163(2007).
Other Notes	Small volumes of anti-MAPG8a/b antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MAPG8a/b purchase	MBS6318737 is an antibody targeting MAPG8a/b. Also known as MAPG8a/b (MAP1LC3A/B, MAP1LC3B, MAP1ALC3, Microtubule-associated proteins 1A/1B light chain 3B, Autophagy-related protein LC3 B, Autophagy-related ubiquitin-like modifier LC3 B, MAP1 light chain 3-like protein 2, MAP1A/MAP1B light chain 3 B, Microtubule-a. Reactive in Human, Mouse. Host: Rabbit.



Immunofluorescence (IF) of anti-MAPG8a/b antibody
Fluorescent image of U251 cells stained with APG8a/b (MAP1LC3A/B) antibody. U251 cells were treated with Chloroquine (50 uM,16h), then fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AP10648a APG8a/b (MAP1LC3A/B) primary antibody (1:100, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 5 min). APG8a/b (MAP1LC3A/B) immunoreactivity is localized to autophagic vacuoles in the cytoplasm of U251 cells.



Western Blot (WB) of anti-MAPG8a/b antibody
APG8a/b (MAP1LC3A/B) western blot analysis in mouse lung tissue lysates (35ug/lane).This demonstrates the MAP1LC3A antibody detected the MAP1LC3A protein (arrow).



Immunohistochemistry (IHC) of anti-MAPG8a/b antibody
Cleaved-APG8a/b antibody (MAP1LC3A/B) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the Cleaved-APG8a/b antibody (MAP1LC3A/B) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAPG8a/b. It may not necessarily be applicable to this product.

NCBI GI #	12383056
NCBI GeneID	81631

NCBI Accession #	NP_073729.1
UniProt Primary Accession #	Q9GZQ8
UniProt Secondary Accession #	Q6NW02
UniProt Related Accession #	Q9GZQ8
GenBank Nucleotide #	NM_022818.4
NCBI Official Full Name	microtubule-associated proteins 1A/1B light chain 3B
NCBI Official Synonym Full Names	microtubule-associated protein 1 light chain 3 beta
NCBI Official Symbol	MAP1LC3B
NCBI Official Synonym Symbols	LC3B; ATG8F; MAP1LC3B-a; MAP1A/1BLC3
UniProt Protein Name	Microtubule-associated proteins 1A/1B light chain 3B
UniProt Synonym Protein Names	Autophagy-related protein LC3 B; Autophagy-related ubiquitin-like modifier LC3 B; MAP1 light chain 3-like protein 2; MAP1A/MAP1B light chain 3 B; MAP1A/MAP1B LC3 B; Microtubule-associated protein 1 light chain 3 beta
UniProt Gene Name	MAP1LC3B
UniProt Synonym Gene Names	MAP1ALC3; MAP1A/MAP1B LC3 B
UniProt Entry Name	MLP3B_HUMAN
NCBI Protein Information	microtubule-associated proteins 1A/1B light chain 3B; MAP1A/MAP1B LC3 B; MAP1A/MAP1B light chain 3 B; MAP1 light chain 3-like protein 2; autophagy-related ubiquitin-like modifier LC3 B
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