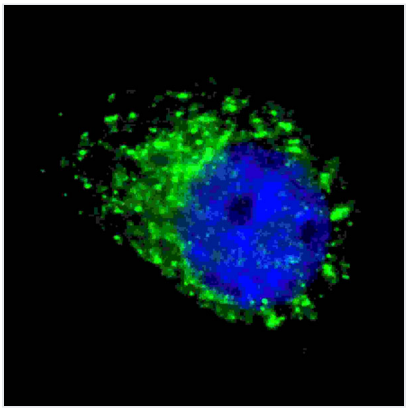
MAPG8a/b Antibody – Rabbit Polyclonal

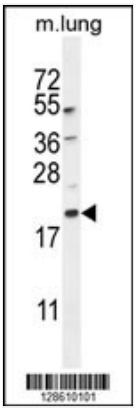
PRODUCT OVERVIEW

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 R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. 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. Caution: PE conjugates are sensitive to light. 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	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-MAPG8a/b antibody	Antibodies; Microtubule-associated Proteins
Applications Tested/Suitable for anti-MAPG8a/b antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-MAPG8a/b antibody	IHC: 1:50-100 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.

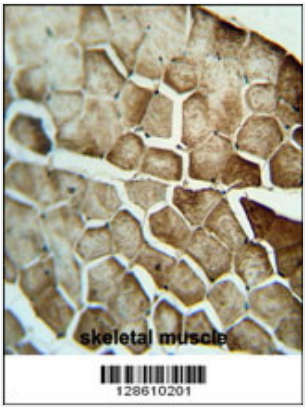
Related Product Information for anti-MAPG8a/b antibody	The product of this gene is a subunit of neuronal microtubule-associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. Studies on the rat homolog implicate a role for this gene in autophagy, 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	MBS6318747 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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