LC3B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LC3B, Polyclonal Antibody
Full Product Name	LC3B, Phosphorylated (T93) (MAP1LC3B, LC3B, MAP1A/1BLC3, MAP1LC3B) (MaxLight 405)
Product Gene Name	anti-LC3B antibody
Product Synonym Gene Name	MAP1LC3B
Product Synonym Names	MAP1LC3B; LC3B; MAP1A/1BLC3; MAP1LC3B
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
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: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	125
OMIM	609604
3D Structure	ModBase 3D Structure for Q9GZQ8
Immunogen	Phospho-LC3B-T93 antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide between 83~112 amino acids surrounding T93 of human MAP1LC3B.
Conjugate	MaxLight405
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-LC3B antibody	Antibodies; Autophagy
Applications Tested/Suitable for anti-LC3B antibody	FLISA, Dot Blot (DB)
Application Notes for anti-LC3B antibody	FLISA: 1:1,000 Applications are based on unconjugated antibody.

Related Product Information for anti-LC3B antibody	MAP1A and MAP1B are microtubule-associated proteins which mediate the physical interactions between microtubules and components of the cytoskeleton. These proteins are involved in formation of autophagosomal vacuoles (autophagosomes). MAP1A and MAP1B each consist of a heavy chain subunit and multiple light chain subunits. MAP1LC3b is one of the light chain subunits and can associate with either MAP1A or MAP1B. The precursor molecule is cleaved by APG4B/ATG4B to form the cytosolic form, LC3-I. This is activated by APG7L/ATG7, transferred to ATG3 and conjugated to phospholipid to form the membrane-bound form, LC3-II. Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole).
Product References and Citations for anti-LC3B antibody	Baehrecke EH. Nat Rev Mol Cell Biol. 6(6):505-10. (2005). Lum JJ, et al. Nat Rev Mol Cell Biol. 6(6):439-48. (2005). Greenberg JT. Dev Cell. 8(6):799-801. (2005). Levine B. Cell. 120(2):159-62. (2005). Shintani T and Klionsky DJ. Science. 306(5698):990-5. (2004). Tanida I., et al. Int. J. Biochem. Cell Biol. 36:2503-2518(2004). He H., et al. J. Biol. Chem. 278:29278-29287(2003). Tanida I., et al. J. Biol. Chem. 279:36268-36276(2004).
Other Notes	Small volumes of anti-LC3B 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 LC3B purchase	MBS6315398 is an antibody targeting LC3B. Also known as LC3B, Phosphorylated (T93) (MAP1LC3B, LC3B, MAP1A/1BLC3, MAP1LC3B) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LC3B. It may not necessarily be applicable to this product.

NCBI GI #	17433141
NCBI GeneID	81631
NCBI Accession #	Q9GZQ8.3
UniProt Primary Accession #	Q9GZQ8
UniProt Secondary Accession #	Q6NW02
UniProt Related Accession #	Q9GZQ8
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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