

# Bi-Phospho-APG8b(MAP1LC3B)(T93/Y99) Antibody Blocking peptide

Synthetic peptide Catalog # BP3739a

## **Specification**

# Bi-Phospho-APG8b(MAP1LC3B)(T93/Y99) Antibody Blocking peptide - Product Information

**Primary Accession** 

Q9GZQ8

# Bi-Phospho-APG8b(MAP1LC3B)(T93/Y99) Antibody Blocking peptide - Additional Information

**Gene ID** 81631

#### **Other Names**

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, MAP1A/MAP1B LC3 B, Microtubule-associated protein 1 light chain 3 beta, MAP1LC3B, MAP1ALC3

#### **Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

#### **Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

### **Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

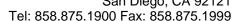
# Bi-Phospho-APG8b(MAP1LC3B)(T93/Y99) Antibody Blocking peptide - Protein Information

Name MAP1LC3B (HGNC:13352)

Synonyms MAP1ALC3

#### **Eunction**

Ubiquitin-like modifier involved in formation of autophagosomal vacuoles (autophagosomes) (PubMed:<a href="http://www.uniprot.org/citations/20418806" target="\_blank">20418806</a>, PubMed:<a href="http://www.uniprot.org/citations/23209295" target="\_blank">23209295</a>, PubMed:<a href="http://www.uniprot.org/citations/28017329" target="\_blank">28017329</a>). Plays a role in mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production (PubMed:<a href="http://www.uniprot.org/citations/23209295" target="\_blank">23209295" target="\_blank">23209295</a>, PubMed:<a href="http://www.uniprot.org/citations/28017329" target="\_blank">28017329</a><a href="http://www.uniprot.org/citations/28017329" target="\_blank"





target=" blank">22922758</a>). While LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation (PubMed: <a href="http://www.uniprot.org/citations/20418806"

target=" blank">20418806</a>, PubMed:<a href="http://www.uniprot.org/citations/23209295" target=" blank">23209295</a>, PubMed:<a href="http://www.uniprot.org/citations/28017329" target=" blank">28017329</a>). Promotes primary ciliogenesis by removing OFD1 from centriolar satellites via the autophagic pathway (PubMed:<a

href="http://www.uniprot.org/citations/24089205" target=" blank">24089205</a>). Through its interaction with the reticulophagy receptor TEX264, participates in the remodeling of subdomains of the endoplasmic reticulum into autophagosomes upon nutrient stress, which then fuse with lysosomes for endoplasmic reticulum turnover (PubMed:<a

href="http://www.uniprot.org/citations/31006537" target=" blank">31006537</a>, PubMed:<a href="http://www.uniprot.org/citations/31006538" target="blank">31006538</a>). Upon nutrient stress, directly recruits cofactor IMY to the phagophore membrane surfaces and promotes IMY's actin nucleation activity and autophagosome biogenesis during autophagy (PubMed: <a href="http://www.uniprot.org/citations/30420355" target=" blank">30420355</a>).

#### **Cellular Location**

Cytoplasmic vesicle, autophagosome membrane; Lipid-anchor Endomembrane system; Lipid-anchor Mitochondrion membrane; Lipid-anchor. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q9CQV6}. Cytoplasmic vesicle. Note=LC3-II binds to the autophagic membranes. LC3-II localizes with the mitochondrial inner membrane during Parkin-mediated mitophagy (PubMed:28017329). Localizes also to discrete punctae along the ciliary axoneme

### **Tissue Location**

Most abundant in heart, brain, skeletal muscle and testis. Little expression observed in liver

## Bi-Phospho-APG8b(MAP1LC3B)(T93/Y99) Antibody Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

## • Blocking Peptides

Bi-Phospho-APG8b(MAP1LC3B)(T93/Y99) Antibody Blocking peptide - Images

# Bi-Phospho-APG8b(MAP1LC3B)(T93/Y99) Antibody Blocking peptide - Background

The product of this gene is a subunit of neuronalmicrotubule-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, aprocess that involves the bulk degradation of cytoplasmiccomponent.

## Bi-Phospho-APG8b(MAP1LC3B)(T93/Y99) Antibody Blocking peptide - References

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