

For Research Use Only

# LC3A/B Monoclonal antibody

Catalog Number: 66139-1-Ig **24 Publications**



## Basic Information

<b>Catalog Number:</b> 66139-1-Ig	<b>GenBank Accession Number:</b> NM_032514	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 687 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 84557	<b>CloneNo.:</b> 2B2B5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9H492	
<b>Isotype:</b> IgG1	<b>Full Name:</b> microtubule-associated protein 1 light chain 3 alpha	
	<b>Calculated MW:</b> 14 kDa	
	<b>Observed MW:</b> 14 kDa, 16 kDa	

## Applications

**Tested Applications:**  
ELISA

**Cited Applications:**  
WB, IHC, IF, IP

**Species Specificity:**  
human, pig, mouse

**Cited Species:**  
human, mouse, rat, pig, hamster

## Background Information

LC3, also known as microtubule-associated protein 1 light chain 3 (MAP1LC3), is a mammalian homolog of the yeast Atg8p (autophagy-related 8 protein) that is involved in autophagy process. Three isoforms of LC3 exist as LC3A, LC3B, and LC3C. LC3 is first synthesized as pro-LC3, and undergoes C-terminal cleavage to yield a cytosolic precursor known as LC3-I. During autophagy LC3-I is subsequently conjugated to PE lipid as lipidated form: LC3-II. The lipidated form migrates faster on SDS-PAGE gel. The increased level of LC3-II has been widely used as autophagy marker. This antibody recognizes both LC3-I and LC3-II.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lei Gao	26407982	Apoptosis	WB
Xiaopeng Yuan	25220423	Exp Cell Res	WB
Min Liu	34480124	Cell Res	IF

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

---

## Selected Validation Data