

For Research Use Only

LC3A/B Monoclonal antibody

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



Basic Information

Catalog Number: 66139-1-Ig	GenBank Accession Number: NM_032514	Purification Method: Protein G purification
Size: 690 µg/ml	GeneID (NCBI): 84557	CloneNo.: 2B2B5
Source: Mouse	UNIPROT ID: Q9H492	
Isotype: IgG1	Full Name: microtubule-associated protein 1 light chain 3 alpha	
	Calculated MW: 14 kDa	
	Observed MW: 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

For technical support and original validation data for this product please contact:
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Selected Validation Data