

For Research Use Only

LC3A/B Monoclonal ANTIBODY



Catalog Number: 66139-1-Ig

15 Publications

Basic Information

Catalog Number:
66139-1-Ig

Size:
103 µg/150 µl

Source:
Mouse

Isotype:
IgG1

Purification Method:
Protein G purification

Immunogen Catalog Number:

GenBank Accession Number:
NM_032514

GeneID (NCBI):
84557

Full Name:
microtubule-associated protein 1 light chain 3
alpha

Calculated MW:
14 kDa

Observed MW:
14 kDa, 16 kDa

Recommended Dilutions:

Applications

Tested Applications:
ELISA

Cited Applications:
IF, IHC, IP, WB

Species Specificity:
human, pig, mouse

Cited Species:
hamster, human, mouse, rat

Note: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

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
Jinghua Yu	26460192	Mol Med Rep	WB

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