Product Name: LC3A/B (3E9) Mouse Monoclonal Antibody
Catalog #: AMM03560

Summary

Production Name	LC3A/B (3E9) Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB
Reactivity	Human,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG2b
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Purification	Affinity Purification

Immunogen

Gene Name	MAP1LC3A/MAP1LC3B
Alternative Names	LC3; LC3A; ATG8E; MAP1ALC3; MAP1BLC3; MAP1LC3A; LC3B; ATG8F; MAP1LC3B-a; MAP1A/1BLC3; MAP1LC3B
Gene ID	84557/81631
SwissProt ID	Q9H492/Q9GZQ8.

Application

Dilution Ratio	WB: 1:500-1:1000
Molecular Weight	Calculated MW: 14 kDa; Observed MW: 14,16 kDa

Background

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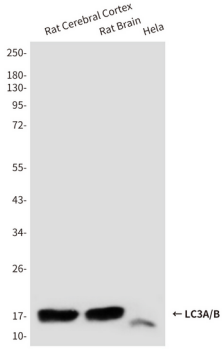
Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes 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). 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. MAP1LC3a 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.

Research Area

Signal Transduction

Image Data



Western blot analysis of LC3A/B in rat Cerebral Cortex, rat Brain and Hela lysates using LC3A/B antibody.

Note

For research use only.