

Anti-LC3A/B Antibody

Mouse Monoclonal Antibody

Catalog # AP53484

Product Information

Application	WB
Primary Accession	LC3A:Q9H492 , LC3B:Q9GZQ8
Other Accession	NM_022818
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Immunogen	Synthetic peptide corresponding to human LC3B protein
Calculated MW	14 KDa

Additional Information

Other Names	ATG8F; Autophagy related protein LC3 A; Autophagy related protein LC3 B; Autophagy related ubiquitin like modifier LC3 A; Autophagy related ubiquitin like modifier LC3 B; Autophagy-related protein LC3 B; Autophagy-related ubiquitin-like modifier LC3 B; LC3; MAP1 light chain 3 like protein 1; MAP1 light chain 3 like protein 2; MAP1 light chain 3-like protein 2; MAP1A/1B light chain 3 A; MAP1A/1B light chain 3 B; MAP1A/1BLC3; MAP1A/MAP1B LC3 A; MAP1A/MAP1B LC3 B; MAP1A/MAP1B light chain 3 B; MAP1ALC3; MAP1BLC3; MAP1LC3A; Map1lc3b; Microtubule associated protein 1 light chain 3 alpha; Microtubule associated protein 1 light chain 3 beta; Microtubule associated proteins 1A/1B light chain 3; Microtubule associated proteins 1A/1B light chain 3A; Microtubule associated proteins 1A/1B light chain 3B; Microtubule-associated protein 1 light chain 3 beta; Microtubule-associated proteins 1A/1B light chain 3B; MLP3B_HUMAN.
Dilution	WB~~1:1000
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

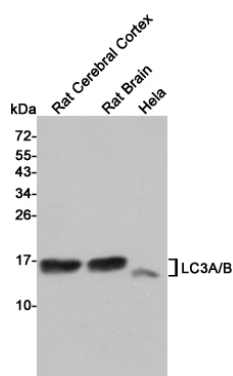
Protein Information

Background

LC3A:Ubiquitin-like modifier involved in formation of autophagosomal vacuoles (autophagosomes) (PubMed:20713600, PubMed:24290141). Whereas LC3s are involved in elongation of the phagophore

membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation (PubMed:20713600). LC3B:Ubiquitin-like modifier involved in formation of autophagosomal vacuoles (autophagosomes). 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. Whereas LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation. Promotes primary ciliogenesis by removing OFD1 from centriolar satellites via the autophagic pathway.

Images



Western blot detection of LC3A/B in Rat Cerebral Cortex, Rat Brain and HeLa cell lysates using LC3A/B Mouse mAb (1:1000 diluted). Predicted band size: 15KDa. Observed band size: 14, 16KDa.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.