

Product Name: KD-Validated MAP1LC3B Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01267

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 14.7kDa

Antigen Information

Gene Name	MAP1LC3B MAP1LC3B; Microtubule Associated Protein 1 Light Chain 3 Beta 2; ATG8F 2; Microtubule-Associated Proteins 1A/1B Light Chain 3B; Autophagy-Related Ubiquitin-Like Modifier LC3 B;
Alternative Names	MAP1 Light Chain 3-Like Protein 2; MAP1A/MAP1B Light Chain 3 B; MAP1A/MAP1B LC3 B; Microtubule-Associated Protein 1 Light Chain 3 Beta; Autophagy-Related Protein LC3 B; MAP1A/1BLC3; MAP1LC3B-A; MAP1ALC3; LC3B
Gene ID	81631.0
SwissProt ID	Q9GZQ8
Immunogen	A synthesized peptide derived from human LC3B

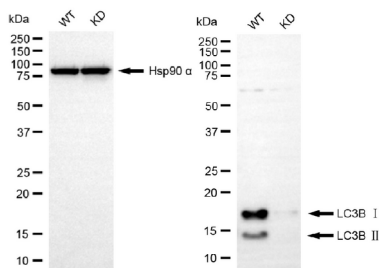
Background

The product of this gene is a subunit of neuronal microtubule-associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. Studies on the rat homolog implicate a role for this gene in autophagy, a process that involves the bulk degradation of cytoplasmic component. [provided by RefSeq, Jul 2008]

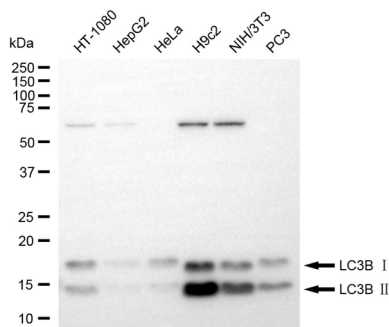
Research Area

Signal Transduction, Neuroscience, Cardiovascular, Cancer, Cell Biology, Metabolism

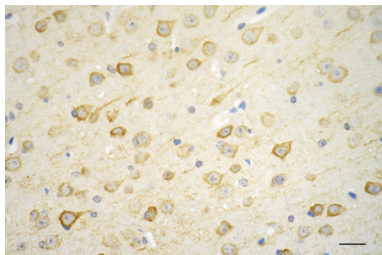
Image Data



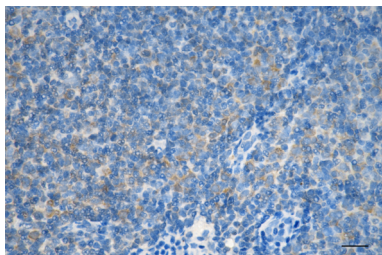
Western blotting analysis using LC3B antibody (KVA01267). LC3B expression in wild-type (WT) and MAP1LC3B knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with LC3B antibody (KVA01267, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



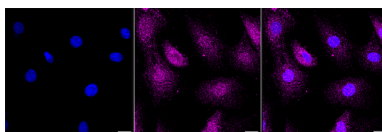
Western blotting analysis using LC3B antibody (KVA01267). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with LC3B antibody (KVA01267, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



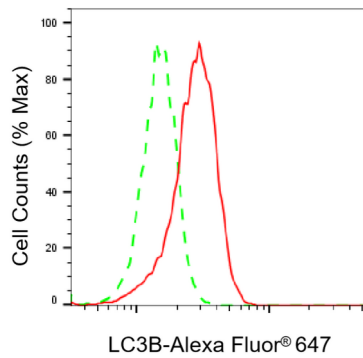
Immunohistochemistry was performed on paraffin-embedded mouse brain using LC3B antibody (KVA01267, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunohistochemistry was performed on paraffin-embedded human lymphoma using LC3B antibody (KVA01267, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of H9C2 cells with LC3B antibody (KVA01267, 1:1,000). Nuclei were stained blue with DAPI; LC3B was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of LC3B expression in H9c2 cells using LC3B antibody (KVA01267, 1:2,000). Green, isotype control; red, LC3B.