MAP1LC3A Rabbit mAb

Catalog No: #48865

Package Size: #48865-1 50ul #48865-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

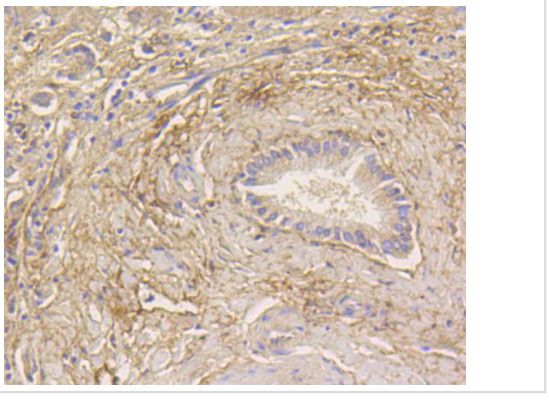
Description

Product Name	MAP1LC3A Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	ST47-03
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	ATG8E antibody Autophagy-related protein LC3 A antibody Autophagy-related ubiquitin-like modifier LC3 A antibody LC3 antibody LC3A antibody MAP1 light chain 3 like protein 1 antibody MAP1 light chain 3-like protein 1 antibody MAP1A/1B light chain 3 A antibody MAP1A/MAP1B LC3 A antibody MAP1A/MAP1B light chain 3 A antibody MAP1ALC3 antibody MAP1BLC3 antibody Map1lc3a antibody Microtubule associated proteins 1A/1B light chain 3 antibody Microtubule-associated protein 1 light chain 3 alpha antibody Microtubule-associated proteins 1A and 1B, light chain 3 antibody Microtubule-associated proteins 1A/1B light chain 3A antibody MLP3A_HUMAN antibody
Accession No.	Swiss-Prot#:Q9H492
Calculated MW	14 kDa
SDS-PAGE MW	16 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

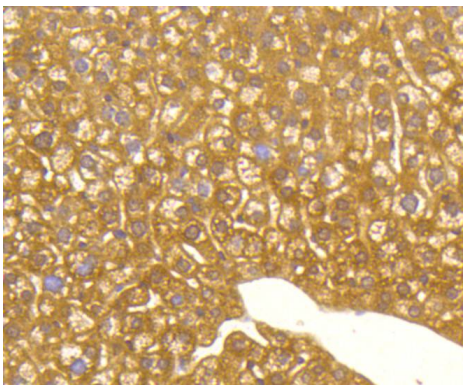
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

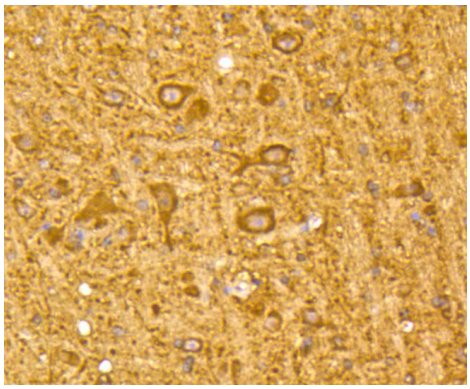
Images



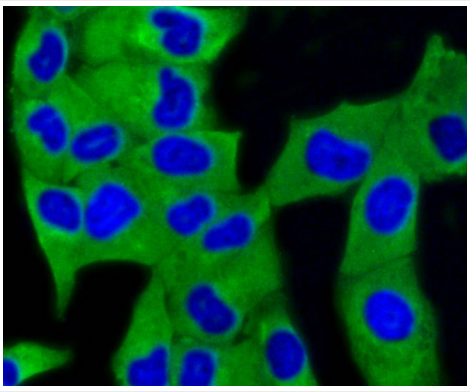
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-MAP1LC3A antibody. Counter stained with hematoxylin.



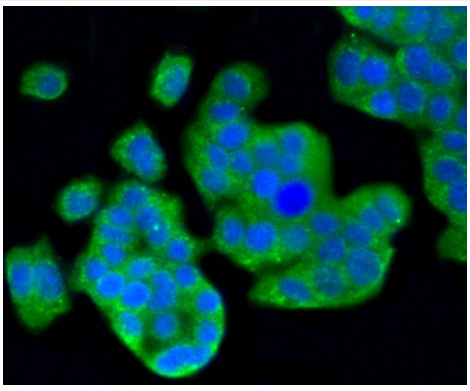
Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-MAP1LC3A antibody. Counter stained with hematoxylin.



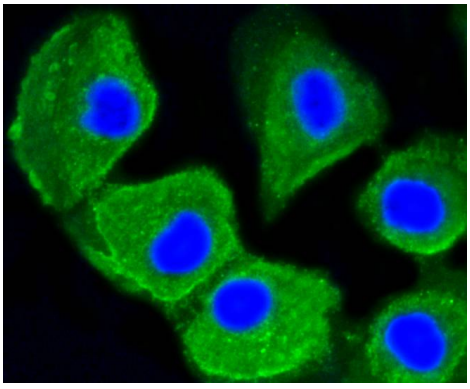
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-MAP1LC3A antibody. Counter stained with hematoxylin.



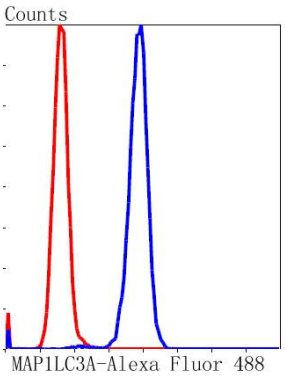
ICC staining MAP1LC3A in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



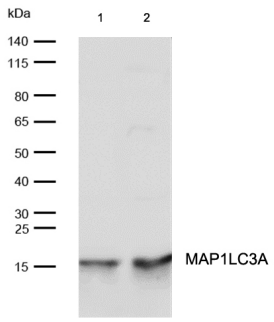
ICC staining MAP1LC3A in PC12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



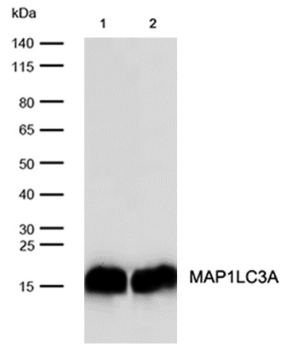
ICC staining MAP1LC3A in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



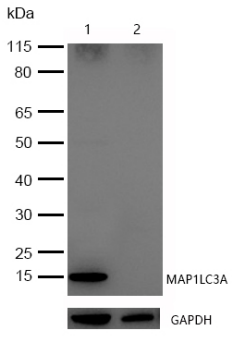
Flow cytometric analysis of SH-SY-5Y cells with MAP1LC3A antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



All lanes: MAP1LC3A Rabbit mAb at 1/1k dilutionLane 1 : K562 whole cell lysates Lane 2 : U-87 MG whole cell lysates Lysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 14 kDa Observed band size: 16 kDaExposure time: 7 seconds



All lanes: MAP1LC3A Rabbit mAb at 1/1k dilutionLane 1 : Mouse brain lysates Lane 2 : Rat brain lysates Lysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 14 kDa Observed band size: 16 kDaExposure time: 6 seconds



All lanes:MAP1LC3A Rabbit mAb at 1/1k dilutionLane 1 : Wild-type Hela cell lysateLane 2 : MAP1LC3A knockdown Hela cell lysateLysates/proteins at 20 µg per lane.

Background

Microtubules, the primary component of the cytoskeletal network, interact with proteins called microtubule-associated proteins (MAPs). The microtubule-associated proteins can be divided into two groups, structural and dynamic. The structural microtubule-associated proteins, MAP-1A, MAP-1B, MAP-2A, MAP-2B and MAP-2C, stimulate tubulin assembly, enhance micro-tubule stability and influence the spatial distribution of microtubules within cells. Both MAP-1 and, to a greater extent, MAP-2 have been implicated as agents of microtubule depolymerization by suppressing the dynamic instability of the microtubules. The suppression of microtubule dynamic instability by the MAP proteins is thought to be associated with phosphorylation of the MAPs.

References

1. Kim JY et al. Expression of autophagy-related proteins according to androgen receptor and HER-2 status in estrogen receptor-negative breast cancer. PLoS One 9:e105666 (2014).
2. Jung CH et al. ULK-Atg13-FIP200 complexes mediate mTOR signaling to the autophagy machinery. Mol Biol Cell 20:1992-2003 (2009).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.