

Summary

Production Name	LC3A(5G10)Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB,IF,IHC
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
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% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	MAP1LC3A Microtubule-associated proteins 1A/1B light chain 3A (Autophagy-related protein LC3 A) (Autophagy-related ubiquitin-like modifier LC3 A) (MAP1 light chain 3-like protein 1)
Alternative Names	(MAP1A/MAP1B light chain 3 A) (MAP1A/MAP1B LC3 A) (Microtubule-associated protein 1 light chain 3 alpha)
Gene ID	84557.0
SwissProt ID	Q9H492.Synthetic Peptide of LC3A

Application

Dilution Ratio	WB 1:1000-2000, IHC 1:100-200 IF 1:200
Molecular Weight	14,16kD

Product Name: LC3A(5G10)Mouse Monoclonal Antibody
Catalog #: AMM13240

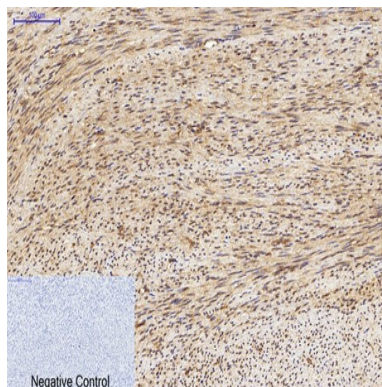


Background

MAP1A and MAP1B are microtubule-associated proteins which mediate the physical interactions between microtubules and components of the cytoskeleton. MAP1A and MAP1B each consist of a heavy chain subunit and multiple light chain subunits. The protein encoded by this gene is one of the light chain subunits and can associate with either MAP1A or MAP1B. Two transcript variants encoding different isoforms have been found for this gene. The expression of variant 1 is suppressed in many tumor cell lines, suggesting that may be involved in carcinogenesis. [provided by RefSeq, Feb 2012],function:Probably involved in formation of autophagosomal vacuoles (autophagosomes),,PTM: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.,similarity:Belongs to the MAP1 LC3 family.,subcellular location:LC3-II binds to the autophagic membranes.,subunit:3 different light chains, LC1, LC2 and LC3, can associate with MAP1A and MAP1B proteins.,tissue specificity:Most abundant in heart, brain, liver, skeletal muscle and testis but absent in thymus and peripheral blood leukocytes.,

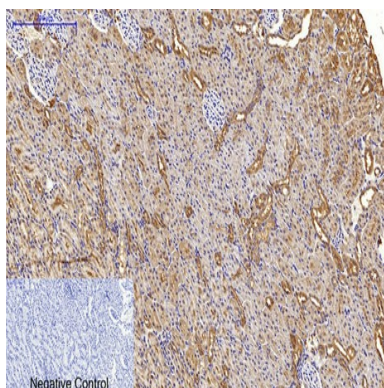
Research Area

Image Data

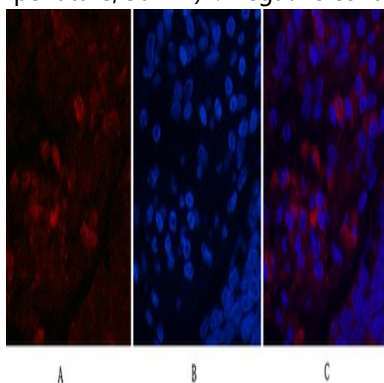


Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1,LC3A Mouse Monoclonal Antibody (5G10) was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) . Negative control was used by secondary antibody only.

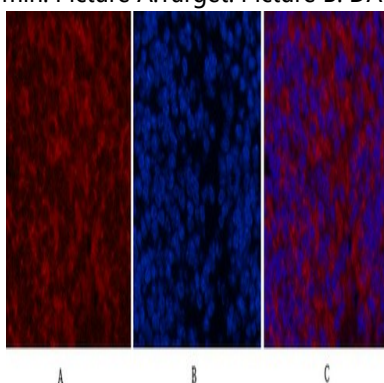
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Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1,LC3A Mouse Monoclonal Antibody (5G10) was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) . Negative control was used by secondary antibody only.

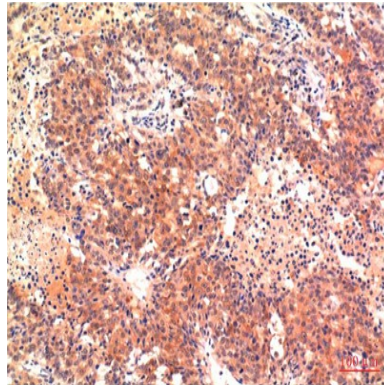


Immunofluorescence analysis of Human-lung-cancer tissue. 1,LC3A Mouse Monoclonal Antibody (5G10) (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

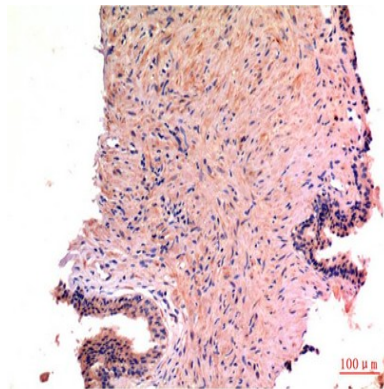


Immunofluorescence analysis of Mouse-spleen tissue. 1,LC3A Mouse Monoclonal Antibody (5G10) (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

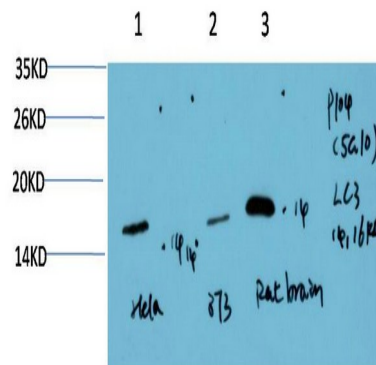
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Immunohistochemical analysis of paraffin-embedded Human Hepatocarcinoma Tissue using LC3A Mouse mAb diluted at 1:200.



Immunohistochemical analysis of paraffin-embedded Human Prostate Carcinoma Tissue using LC3A Mouse mAb diluted at 1:200.



Western blot analysis of 1) HeLa Cell Lysate, 2) 3T3 Cell Lysate, 3) Rat Brain Tissue Lysate using LC3A Mouse mAb diluted at 1:1000.

Note

For research use only.