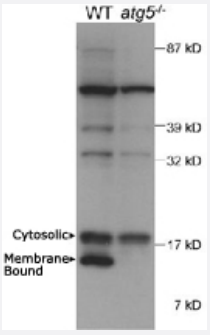
# MAP1LC3A polyclonal antibody

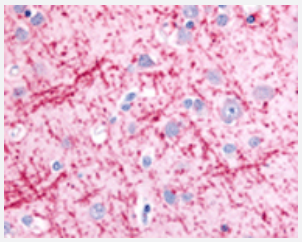
Catalog # PAB12390 Size 100 uL

## Applications




### Western Blot (Cell lysate)

Western blot analysis of autophagic MAP1LC3A in mouse ES cell lysate using MAP1LC3A polyclonal antibody (Cat # PAB12390). Photo courtesy of Dr. Beth Levine, UT Southwestern Medical Center.



### Immunohistochemistry

Staining of MAP1LC3A on human brain, cerebral cortex, cell crocesses in gray matter. Using MAP1LC3A polyclonal antibody (Cat # PAB12390) at a 1 : 200 dilution.

## Specification

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|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of MAP1LC3A. |
| **Immunogen** | A synthetic peptide corresponding to amino acids 50-150 of human MAP1LC3A. |
| **Host** | Rabbit |
| **Reactivity** | Bovine, Human, Mouse, Rat, Xenopus, Zebra fish |
| **Form** | Liquid |
| **Recommend Usage** | Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200-1:400)<br>Western Blot (2 ug/mL)<br>The optimal working dilution should be determined by the end user. |

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|---|---|
| **Storage Buffer** | In PBS (30% glycerol, 0.09% sodium azide) |
| **Storage Instruction** | Store at -20°C or -80°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Western Blot (Cell lysate)

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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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## Gene Info — MAP1LC3A

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|---|---|
| **Entrez GeneID** | 84557 |
| **Protein Accession#** | Q9GZQ8 |
| **Gene Name** | MAP1LC3A |
| **Gene Alias** | LC3, LC3A, MAP1ALC3, MAP1BLC3 |
| **Gene Description** | microtubule-associated protein 1 light chain 3 alpha |
| **Omim ID** | 601242 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | 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. [provided by RefSeq |
| **Other Designations** | MAP1 light chain 3-like protein 1\|MAP1A/1B light chain 3 A\|MAP1A/MAP1B LC3 A\|OTTHUMP00 000030696\|OTTHUMP00000030697\|OTTHUMP00000030698\|microtubule-associated proteins 1A/1B light chain 3 |

## Publication Reference

- Regulation of autophagy by the p300 acetyltransferase.

  Lee IH, Finkel T.

  The Journal of Biological Chemistry 2009 Jan; 284(10):6322.

- Apoptosis inhibition by Bcl-2 gives way to autophagy in glucocorticoid-treated lymphocytes.

  Swerdlow S, McColl K, Rong Y, Lam M, Gupta A, Distelhorst CW.

  Autophagy 2008 Jul; 4(5):612.

  Application: WB, Mouse, WEHI7.2 cells

- A role for the NAD-dependent deacetylase Sirt1 in the regulation of autophagy.

  Lee IH, Cao L, Mostoslavsky R, Lombard DB, Liu J, Bruns NE, Tsokos M, Alt FW, Finkel T.

  PNAS 2008 Mar; 105(9):3374.

  Application: WB-Tr, Human, HCT-116 cells

- Small molecule regulators of autophagy identified by an image-based high-throughput screen.

  Zhang L, Yu J, Pan H, Hu P, Hao Y, Cai W, Zhu H, Yu AD, Xie X, Ma D, Yuan J.

  PNAS 2007 Nov; 104(48):19023.

  Application: WB, Human, H4 cells