

## Rabbit anti-Human MAP1LC3A Polyclonal Antibody | anti-MAP1LC3A antibody

Anti-MAP1LC3A Antibody, Rabbit Polyclonal

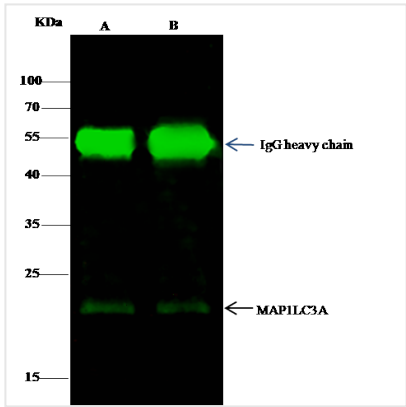
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                            |
|-----------|--------|------------|---------------------------------------------------------|
| AAA255755 | Rabbit | Human      | Immunoprecipitation, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

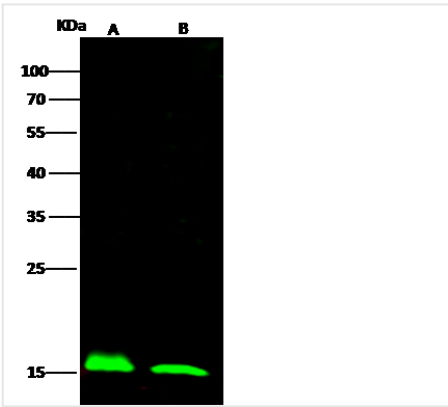
MAP1LC3A; Polyclonal Antibody; Anti-MAP1LC3A Antibody; Rabbit Polyclonal; LC3A/MAP1LC3A Antibody; Rabbit PAb; Antigen Affinity Purified; microtubule-associated protein 1 light chain 3 alpha; Anti-ATG8E Antibody; Anti-LC3 Antibody; Anti-LC3A Antibody; Anti-MAP1ALC3 Antibody; Anti-MAP1BLC3 Antibody; anti-MAP1LC3A antibody

### PRODUCT SPECIFICATIONS

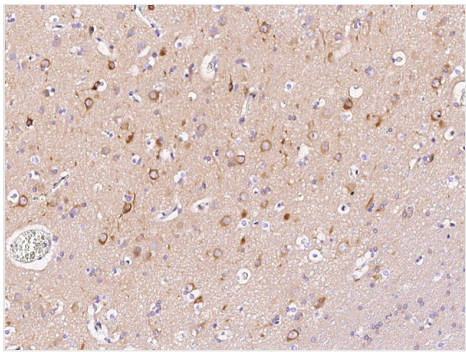
|                                                    |                                                                                                                                                                                                                                                                       |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                               | Rabbit                                                                                                                                                                                                                                                                |
| Reactivity                                         | Human                                                                                                                                                                                                                                                                 |
| Clonality                                          | Polyclonal                                                                                                                                                                                                                                                            |
| Isotype                                            | Rabbit IgG                                                                                                                                                                                                                                                            |
| Specificity                                        | Human LC3A/MAP1LC3A                                                                                                                                                                                                                                                   |
| Purity/Purification                                | Protein A & Antigen Affinity                                                                                                                                                                                                                                          |
| Form/Format                                        | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                |
| Applicable Applications for anti-MAP1LC3A antibody | IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                               |
| Immunogen                                          | Recombinant Human LC3A/MAP1LC3A protein                                                                                                                                                                                                                               |
| Conjugation                                        | Unconjugated                                                                                                                                                                                                                                                          |
| Preparation                                        | Produced in rabbits immunized with purified, recombinant Human LC3A/MAP1LC3A (rh LC3A/MAP1LC3A). LC3A/MAP1LC3A specific IgG was purified by Human LC3A/MAP1LC3A affinity chromatography.                                                                              |
| Preparation and Storage                            | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. |



**IP (Immunoprecipitation)**  
MAP1LC3A was immunoprecipitated using: Lane A: 0.5 mg Hela Whole Cell Lysate; Lane B: 0.5 mg MCF-7 Whole Cell Lysate. 2 uL anti-MAP1LC3A rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-MAP1LC3A rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: DyLight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 18 kDa. Observed band size: 18 kDa.



**WB (Western Blot)**  
Anti-MAP1LC3A rabbit polyclonal antibody at 1:500 dilution. Lane A: Mouse brain tissue lysate; Lane B: Rat brain tissue lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG H&L (DyLight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 14 kDa. Observed band size: 16 kDa.



**IHC (Immunohistochemistry)**  
Immunohistochemical staining of human MAP1LC3A in human brain with rabbit polyclonal antibody (1:10000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-MAP1LC3A antibody | LC3A, also known as MAP1LC3A, is one of the light chain subunits that function together with both MAP1A and/or MAP1B. MAP1A and MAP1B are microtubule-associated proteins that 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. As a light chain subunit, MAP1LC3A has an important part in neuronal development and in maintaining the balance between neuronal plasticity and rigidity. MAP1LC3A is expressed as two alternatively spliced isoforms that are expressed in testis, brain, heart, liver, and skeletal muscle but are absent in thymus and peripheral blood leukocytes. |
| Product Categories/Family for anti-MAP1LC3A antibody   | Autophagy Pathway                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| References                                             | He H., et al., (2003), Post-translational modifications of three members of the human MAP1LC3 family and detection of a novel type of modification for MAP1LC3B. J. Biol. Chem. 278:29278-29287. Deloukas P., et al., (2001), The DNA sequence and comparative analysis of human chromosome 20. Nature 414:865-871. Bechtel S., et al., (2007), The full-ORF clone resource of the German cDNA consortium. BMC Genomics 8:399-399.                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|             |          |
|-------------|----------|
| NCBI GI #   | 85701362 |
| NCBI GeneID | 84557    |

|                                  |                                                                                                                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UniProt Accession #              | <a href="#">Q9H492</a> ; <a href="#">Q9BXW5</a> ; <a href="#">E1P5P4</a> ; <a href="#">E1P5P5</a>                                                                                                                  |
| Molecular Weight                 | 14,272 Da                                                                                                                                                                                                          |
| NCBI Official Full Name          | Microtubule-associated proteins 1A/1B light chain 3A                                                                                                                                                               |
| NCBI Official Synonym Full Names | microtubule-associated protein 1 light chain 3 alpha                                                                                                                                                               |
| NCBI Official Symbol             | MAP1LC3A                                                                                                                                                                                                           |
| NCBI Official Synonym Symbols    | LC3; LC3A; ATG8E; MAP1ALC3; MAP1BLC3                                                                                                                                                                               |
| NCBI Protein Information         | microtubule-associated proteins 1A/1B light chain 3A; MAP1A/MAP1B LC3 A; MAP1A/1B light chain 3 A; MAP1A/MAP1B light chain 3 A; MAP1 light chain 3-like protein 1; autophagy-related ubiquitin-like modifier LC3 A |
| UniProt Protein Name             | Microtubule-associated proteins 1A/1B light chain 3A                                                                                                                                                               |
| UniProt Gene Name                | <b>MAP1LC3A</b>                                                                                                                                                                                                    |
| UniProt Synonym Gene Names       | MAP1A/MAP1B LC3 A                                                                                                                                                                                                  |
| UniProt Entry Name               | MLP3A_HUMAN                                                                                                                                                                                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/map1lc3a-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/255755>