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**Product Name: LC3A (8F5) Mouse Monoclonal Antibody****Catalog #: AMM00891**

For research use only.

**Summary**

|                      |  |
|----------------------|--|
| <b>Description</b>   | Mouse monoclonal Antibody  |
| <b>Host</b>          | Mouse  |
| <b>Application</b>   | WB,IHC   |
| <b>Reactivity</b>    | Human,Rat,Mouse  |
| <b>Conjugation</b>   | Unconjugated   |
| <b>Modification</b>  | Unmodified   |
| <b>Isotype</b>       | IgG1   |
| <b>Clonality</b>     | Monoclonal   |
| <b>Form</b>          | Liquid   |
| <b>Concentration</b> | 1mg/ml   |
| <b>Storage</b>       | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.                    |
| <b>Shipping</b>      | Ice bags   |
| <b>Buffer</b>        | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% sodium azide, pH 7.3. |
| <b>Purification</b>  | Affinity Purification  |

**Application**

|                         |   |
|-------------------------|---|
| <b>Dilution Ratio</b>   | WB 1:500-1:1000,IHC 1:50-1:100                |
| <b>Molecular Weight</b> | Calculated MW: 14 kDa; Observed MW: 14,16 kDa |

**Antigen Information**

|                          |   |
|--------------------------|---|
| <b>Gene Name</b>         | MAP1LC3A  |
| <b>Alternative Names</b> | 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; MAP1A/MAP1B light chain 3 A; MAP1A/MAP1B LC3 A; Microtubule-associated protein 1 light chain 3 alpha |
| <b>Gene ID</b>           | 84557   |
| <b>SwissProt ID</b>      | Q9H492  |
| <b>Immunogen</b>         | A synthetic peptide of human MAP1LC3A   |

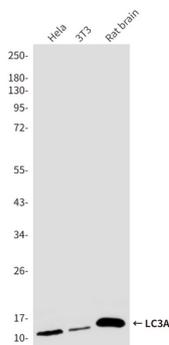
## Background

Autophagy marker Light Chain 3 (LC3) was originally identified as a subunit of microtubule-associated proteins 1A and 1B (termed MAP1LC3), and subsequently found to contain similarity to the yeast protein Apg8/Aut7/Cvt5 critical for autophagy. Three human LC3 isoforms (LC3A, LC3B, and LC3C) undergo post-translational modifications during autophagy. Cleavage of LC3 at the carboxy terminus immediately following synthesis yields the cytosolic LC3-I form.

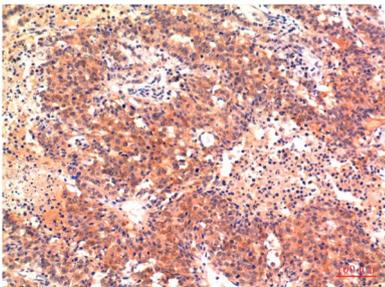
## Research Area

Signal Transduction

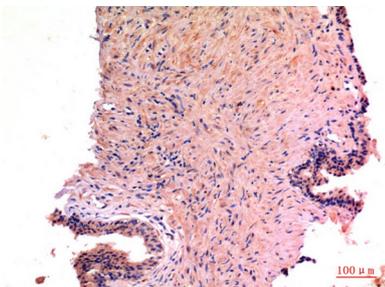
## Image Data



Western blot analysis of LC3A (8F5) in Hela lysates, 3T3 lysates, rat Brain lysates using LC3A antibody.



Immunohistochemistry analysis of paraffin-embedded Human Hepatocarcinoma Tissue using LC3A antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunohistochemistry analysis of paraffin-embedded Human Prostate Carcinoma Tissue using LC3A antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.