9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

# 10-6525: Mouse Monoclonal Antibody to LC3 (APG8)(Clone: 166AT1234)(Discontinued)

| | |
|---|---|
| **Clonality :** | Monoclonal |
| **Clone Name :** | 166AT1234 |
| **Application :** | WB,IF |
| **Reactivity :** | Rat,Mouse,Human |
| **Gene :** | MAP1LC3A |
| **Gene ID :** | 84557 |
| **Uniprot ID :** | Q9H492 |
| **Format :** | Purified |
| **Alternative Name :** | 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, MAP1LC3A |
| **Isotype :** | Mouse IgG1 |

## Description

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.

## Product Info

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|---|---|
| **Amount :** | 80 µl / 400 µl |
| **Purification :** | Protein G Chromatography |
| **Content :** | Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. |
| **Storage condition :** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term store at -20°C in small aliquots to prevent freeze-thaw cycles. |

## Application Note

WB~1:2000-5000|| IF~1:25-200

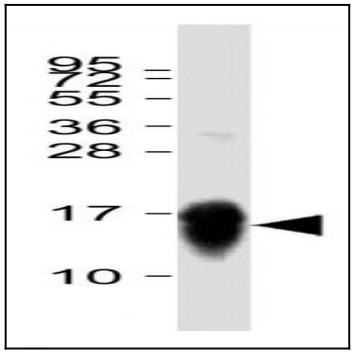


Figure 1: Anti-MAP1LC3A Antibody (10-6525) at 1:5000 dilution + recombinant protein at 20 Î¼g per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 14 kDa.

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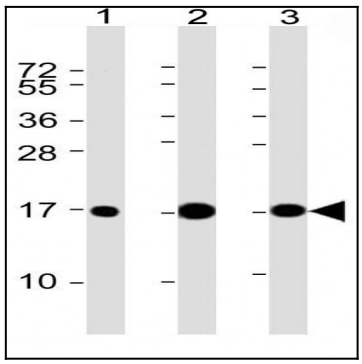


Figure 2: All lanes : Anti-MAP1LC3A Antibody (10-6525) at 1:2000 dilution with Lane 1: human brain lysates, Lane 2: mouse brain lysates and Lane 3: rat brain lysates/proteins at 20 Î¼g per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 14 kDa.

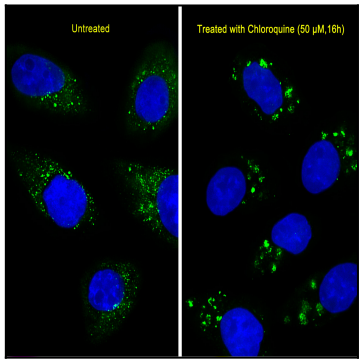


Figure 3: Immunofluorescent analysis of U251 cells, using LC3 Antibody (10-6525). U251 cells (right) were treated with Chloroquine (50 Î¼M,16h). LC3 Antibody was diluted at 1:25 dilution. Dylight Fluor 488-conjugated goat anti-mouse lgG at 1:400 dilution was used as the secondary antibody (green). DAPI was used to stain the cell nuclear (blue).

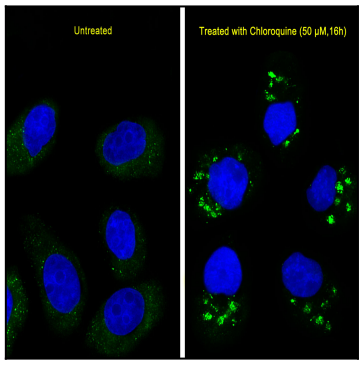


Figure 4: Immunofluorescent analysis of U251 cells, using LC3 Antibody (10-6525). U251 cells (right) were treated with Chloroquine (50 Î¼M,16h). LC3 Antibody was diluted at 1:25 dilution. Dylight Fluor 488-conjugated goat anti-mouse lgG at 1:400 dilution was used as the secondary antibody (green). DAPI was used to stain the cell nuclear (blue).

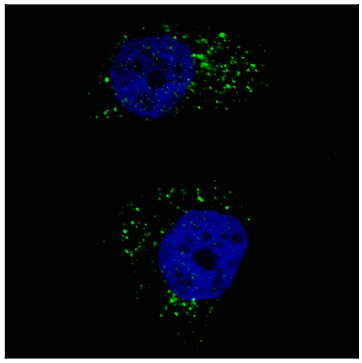

Figure 5: Fluorescent image of U251 cells stained with LC3 antibody (10-6525). U251 cells were treated with Chloroquine (50 Î¼M,16h), then fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with LC3 primary antibody (1:200, 2 h at room temperature). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-mouse antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 Î¼g/ml, 5 min). LC3 immunoreactivity is localized to autophagic vacuoles in the cytoplasm of U251 cells.

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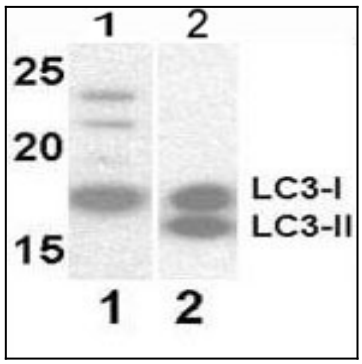


Figure 6 : Western blot analysis of anti-LC3 Mab (10-6525) at 8 Î¼g/ml with Lane 1: Y79 (soluble fraction of cell extract) and Lane 2: 293 transfected with human LC3 (whole cell extract).

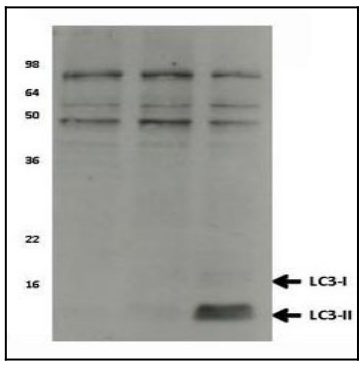


Figure 7: Western blot analysis of anti-LC3 Mab (10-6525) in Hela cell lysates, which were treated with rapamycin or bafilomycin overnight.