

LC3 Antibody (APG8)
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM1800A

Specification

LC3 Antibody (APG8) - Product Information

Application	WB,E
Primary Accession	O9H492 , O9GZQ8
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1 k

LC3 Antibody (APG8) - Additional Information

Other Names

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

Target/Specificity

This LC3 antibody is generated from mouse immunized with a full length recombinant protein of human LC3 (APG8).

Dilution

WB~~1:8000

E~~Use at an assay dependent concentration.

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

LC3 Antibody (APG8) is for research use only and not for use in diagnostic or therapeutic procedures.

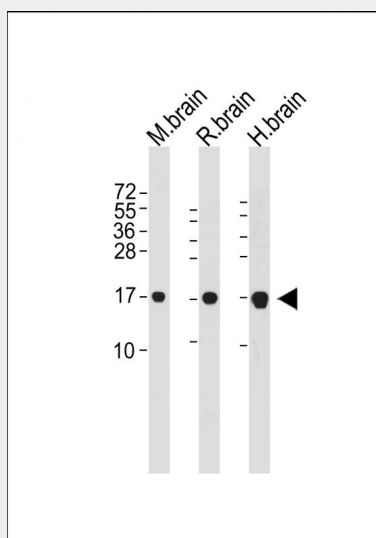
LC3 Antibody (APG8) - Protein Information

LC3 Antibody (APG8) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

LC3 Antibody (APG8) - Images



All lanes : Anti-MAP1LC3A Antibody at dilution Lane 1: Mouse brain whole cell lysate Lane 2: Rat brain whole cell lysate Lane 3: Human brain whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 14 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

LC3 Antibody (APG8) - 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.

LC3 Antibody (APG8) - References

References for protein:

1. Autophagy negatively regulates Wnt signalling by promoting Dishevelled degradation. Gao C, et al. Nat Cell Biol, 2010 Aug. PMID 20639871.
2. The prolyl isomerase Pin1 induces LC-3 expression and mediates tamoxifen resistance in breast cancer. Namgoong GM, et al. J Biol Chem, 2010 Jul 30. PMID 20479004.
3. Protein kinase C inhibits autophagy and phosphorylates LC3. Jiang H, et al. Biochem Biophys Res Commun, 2010 May 14. PMID 20398630.
4. Processing of autophagic protein LC3 by the 20S proteasome. Gao Z, et al. Autophagy, 2010 Jan. PMID 20061800.
5. Defective autophagy associated with LC3 puncta in epothilone-resistant cancer cells. Shen S, et al. Cell Cycle, 2010 Jan 15. PMID 20023420.

References for U251 cell line:

1. Westermarck B.; Pontén J.; Hugosson R. (1973). "Determinants for the establishment of permanent tissue culture lines from human gliomas". *Acta Pathol Microbiol Scand A*. 81:791-805. [PMID: 4359449].
2. Pontén, J., Westermarck B. (1978). "Properties of Human Malignant Glioma Cells in Vitro". *Medical Biology* 56: 184-193. [PMID: 359950].
3. Geng Y.; Kohli L.; Klocke B.J.; Roth K.A. (2010). "Chloroquine-induced autophagic vacuole accumulation and cell death in glioma cells is p53 independent". *Neuro Oncol*. 12(5): 473-481. [PMID: 20406898].

LC3 Antibody (APG8) - Citations

- [Time-resolved proteomic profiling reveals compositional and functional transitions across the stress granule life cycle](#)
- [Aberrant Expression of High Mobility Group Box Protein 1 in the Idiopathic Inflammatory Myopathies](#)
- [Clinical and histological features of immune-mediated necrotising myopathy: A multi-centre South Australian cohort study](#)
- [Fatty Acid Oxidation Compensates for Lipopolysaccharide-Induced Warburg Effect in Glucose-Deprived Monocytes](#)
- [Deletion of the BH3-only protein Noxa alters electrographic seizures but does not protect against hippocampal damage after status epilepticus in mice](#)
- [Cross-talk between lipid and protein carbonylation in a dynamic cardiomyocyte model of mild nitroxidative stress](#)
- [Tamoxifen Induces Cytotoxic Autophagy in Glioblastoma](#)
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- [Male meiotic cytokinesis requires ceramide synthase 3-dependent sphingolipids with unique membrane anchors](#)
- [GMI, an immunomodulatory protein from *Ganoderma microsporum*, potentiates cisplatin-induced apoptosis via autophagy in lung cancer cells](#)
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- [Atorvastatin induces autophagic cell death in prostate cancer cells in vitro](#)
- [Immunohistochemical study of the autophagy marker microtubule-associated protein 1 light chain 3 in normal and steatotic human livers](#)
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- [The Rac1/MKK7/JNK pathway signals upregulation of Atg5 and subsequent autophagic cell death in response to oncogenic Ras](#)