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

Specification

LC3 Antibody (APG8) - Product Information

- **Application**: WB, E
- **Primary Accession**: Q9H492, Q9GZQ8
- **Reactivity**: Human, Mouse, Rat
- **Host**: Mouse
- **Clonality**: Monoclonal
- **Isotype**: Mouse IgG1 k

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

**Dilution**
WB: 1:8000

**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) - 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

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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:
3. Protein kinase C inhibits autophagy and...
may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytometry
- Cell Culture

References for U251 cell line:

LC3 Antibody (APG8) - Citations

- 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 nitoxidative stress.
- Tamoxifen Induces Cytotoxic Autophagy in Glioblastoma.
- Lapatinib induces autophagic cell death and differentiation in acute myeloblastic leukemia.
- 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.
- CD40 ligand exhibits a direct antiviral effect on Herpes Simplex Virus type-1 infection via a PI3K-dependent, autophagy-independent mechanism.
- Immunohistochemical study of the autophagy marker microtubule-associated protein 1 light chain 3 in normal and steatotic human livers.
- The effect of RNAi silencing of p62 using an osmotic polysorbitol transporter on autophagy and tumorigenesis in lungs of K-ras(LA1) mice.
- Production of interferon α by human immunodeficiency virus type 1 in human plasmacytoid dendritic cells is dependent on induction of autophagy.
- Induction of autophagy is essential for monocyte-macrophage differentiation.
- Beclin 1 knockdown inhibits autophagic activation and prevents the secondary neurodegenerative damage in the ipsilateral thalamus following focal cerebral infarction.
- Mouse knock-out of IOP1 protein reveals its essential role in mammalian cytosolic iron-sulfur protein biogenesis.
- Characterization of Puma-dependent and Puma-independent neuronal cell death pathways following prolonged proteasomal inhibition.
- The unfolded protein response protects human tumor cells during hypoxia through regulation of the autophagy genes MAP1LC3B and ATG5.
- The Rac1/MKK7/JNK pathway signals upregulation of Atg5 and subsequent autophagic cell death in response to oncogenic Ras.