

Product datasheet

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ARG54962 anti-LC3A (cleaved) antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes LC3A (cleaved)

Tested Reactivity Hu, Ms
Predict Reactivity Bov, Rat

Tested Application ICC/IF, IHC-P, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name LC3A (cleaved)

Species Human

Immunogen KLH-conjugated synthetic peptide corresponding to aa. 89-120 of Human Cleaved LC3A.

Conjugation Un-conjugated

Alternate Names MAP1A/MAP1B light chain 3 A; MAP1BLC3; LC3; MAP1 light chain 3-like protein 1; MAP1A/MAP1B LC3

A; Autophagy-related protein LC3 A; Microtubule-associated protein 1 light chain 3 alpha; MAP1ALC3; Microtubule-associated proteins 1A/1B light chain 3A; LC3A; ATG8E; Autophagy-related ubiquitin-like

modifier LC3 A

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:10 - 1:100
	IHC-P	Assay-dependent
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse brain	

Properties

Form Liquid

Purification Purification with Protein A and immunogen peptide.

Buffer PBS and 0.09% (W/V) Sodium azide

Preservative 0.09% (W/V) Sodium azide

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links <u>GeneID: 66734 Mouse</u>

GeneID: 84557 Human

Swiss-port # Q91VR7 Mouse

Swiss-port # Q9H492 Human

Gene Symbol MAP1LC3A

Gene Full Name microtubule-associated protein 1 light chain 3 alpha

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. The expression of variant 1 is suppressed in many tumor cell lines, suggesting that may be involved in carcinogenesis. [provided by RefSeq, Feb 2012]

Function Ubiquitin-like modifier involved in formation of autophagosomal vacuoles (autophagosomes). Whereas

LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is

essential for a later stage in autophagosome maturation. [UniProt]

Highlight Related products:

LC3A antibodies; LC3A Duos / Panels; Anti-Rabbit IgG secondary antibodies;

Research Area Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Metabolism

antibody; Neuroscience antibody; Signaling Transduction antibody

Calculated Mw 14 kDa

PTM The precursor molecule is cleaved by ATG4B to form the cytosolic form, LC3-I. This is activated by

APG7L/ATG7, transferred to ATG3 and conjugated to phospholipid to form the membrane-bound form,

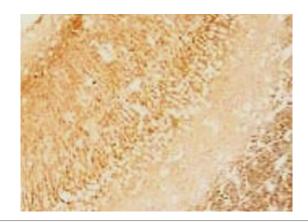
LC3-II (PubMed:15187094).

The Legionella effector RavZ is a deconjugating enzyme that produces an ATG8 product that would be resistant to reconjugation by the host machinery due to the cleavage of the reactive C-terminal glycine. Phosphorylation at Ser-12 by PKA inhibits conjugation to phosphatidylethanolamine (PE). Interaction

with MAPK15 reduces the inhibitory phosphorylation and increases autophagy activity.

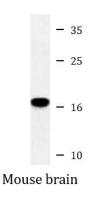
Cellular Localization Cytoplasm, cytoskeleton. Endomembrane system; Lipid-anchor. Cytoplasmic vesicle, autophagosome

membrane; Lipid-anchor. Note=LC3-II binds to the autophagic membranes



ARG54962 anti-LC3A (cleaved) antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human cancer tissue stained with ARG54962 anti-LC3A (cleaved) antibody.



ARG54962 anti-LC3A (cleaved) antibody WB image