

Rabbit LC3 Antibody | anti-LC3 antibody

LC3, Affinity Purified Antibody, Rabbit

CATALOG # AAA76460	HOST Rabbit	REACTIVITY Human, Rat, Mouse, Bovine, Xenopus	APPLICATIONS Western Blot, Immunohistochemistry
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PRODUCT SYNONYMS

LC3; Affinity Purified Antibody; Rabbit; anti-LC3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat, Mouse, Bovine, Xenopus
Purity/Purification	Affinity Purified Antibody
Form/Format	Liquid. PBS, 30% glycerol and 0.02% Sodium Azide. 1.2 mg/ml.
Applicable Applications for anti-LC3 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Type Info	Rabbit IgG
Immunogen Sequence	A synthetic peptide made to an internal portion of the human LC3 protein sequence (between residues 25-121).
Preparation and Storage	Store frozen. Aliquot as undiluted antisera and immediately place at -20°C. Antisera may have become trapped in top of vial during shipping. Centrifugation of vial is recommended before opening. Stable for at least 6 months at -20°C. Repeated freeze/thaw cycles compromise the integrity of the antiserum.

IMAGES



Application Data

Image: Detection of autophagic LC3 in mouse ES cell lysate. The atg5^{-/-} lane (ES cells, cultured to form embryonic bodies, that are deficient in conversion of LC3-1 to LC3-11) demonstrates the specificity of LC3, as there is no detection of LC3-11. Photo courtesy of Dr. Beth Levine, UT Southwestern Medical Center



Application Data

Image: LC3 staining of Human Cerebral Cortex

ADDITIONAL INFORMATION

Related Product Information for anti-LC3 antibody

Autophagy is a process of intracellular bulk degradation in which cytoplasmic components, including organelles, are sequestered within double-membrane vesicles that deliver the contents to the lysosome/vacuole for degradation. During macroautophagy, the sequestering vesicles, termed autophagosomes, fuse with the lysosome or vacuole resulting in the delivery of an inner vesicle (autophagic body) into the lumen of the degradative compartment. There are 16 proteins participating in the autophagy pathway in human. The autophagy protein LC3, a mammalian homologue of Atg8, was originally identified as microtubule-associated protein 1 light chain 3. It is a component of both the MAP1A and MAP1B microtubule-binding domains and the heavy-chain independent regulation of LC3 expression might modify MAP1 microtubule-binding activity during development. LC3 is the only known mammalian protein identified that stably associates with the autophagosome membranes. LC3-I is cytosolic and LC3-II is membrane bound and enriched in the autophagic vacuole fraction. The detection of LC3-I to LC3-II conversion is a useful and sensitive marker for distinguishing autophagy in mammalian cells.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rabbit-bovine-human-mouse-ovine-rat-xenopus-antibody/lc3/76460>