

Rabbit anti-Human LC3 Polyclonal Antibody | anti-MAP1LC3C antibody

LC3 Antibody (APG8C) (N-term)

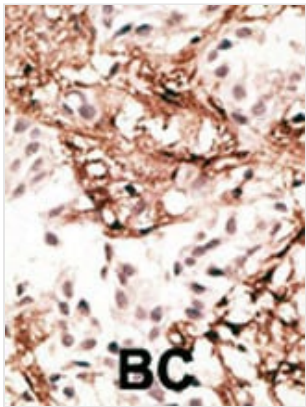
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289202	Rabbit	Human	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

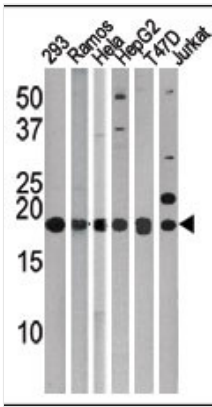
LC3; Polyclonal Antibody; LC3 Antibody (APG8C) (N-term); Microtubule-associated proteins 1A/1B light chain 3C; Autophagy-related protein LC3 C; Autophagy-related ubiquitin-like modifier LC3 C; MAP1 light chain 3-like protein 3; MAP1A/MAP1B light chain 3 C; MAP1A/MAP1B LC3 C; Microtubule-associated protein 1 light chain 3 gamma; MAP1LC3C; anti-MAP1LC3C antibody

PRODUCT SPECIFICATIONS

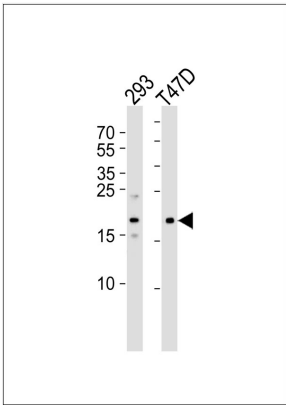
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This LC3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human LC3.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	1-30
Sequence Length	147
Applicable Applications for anti-MAP1LC3C antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)
The anti-LC3 (APG8c) Pab is used in Western blot to detect LC3 (APG8c) in, from left to right, 293, Ramos, Hela, HepG2, T47d, and Jurkat tissue lysates. LC3 (APG8c)(arrow) was detected using the purified Pab.



WB (Western Blot)
Western blot analysis of lysates from 293, T47D cell line (from left to right), using APG8c (MAP1LC3C) Antibody ?M1?. AAA289202 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-MAP1LC3C antibody	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole). MAP1A and MAP1B are microtubule-associated proteins which mediate the physical interactions between microtubules and components of the cytoskeleton. These proteins are involved in formation of autophagosomal vacuoles (autophagosomes). MAP1A and MAP1B each consist of a heavy chain subunit and multiple light chain subunits. MAP1LC3c is one of the light chain subunits and can associate with either MAP1A or MAP1B. The precursor molecule is cleaved by APG4B/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.
Product Categories/Family for anti-MAP1LC3C antibody	Cancer; Cardiovascular; Metabolism; Signal Transduction; GPCR Antibodies

References	Baehrecke EH. Nat Rev Mol Cell Biol. 6(6):505-10. (2005) Lum JJ, et al. Nat Rev Mol Cell Biol. 6(6):439-48. (2005) Greenberg JT. Dev Cell. 8(6):799-801. (2005) Levine B. Cell. 120(2):159-62. (2005) Shintani T and Klionsky DJ. Science. 306(5698):990-5. (2004) Tanida I., et al. Int. J. Biochem. Cell Biol. 36:2503-2518(2004) He H., et al. J. Biol. Chem. 278:29278-29287(2003) Tanida I., et al. J. Biol. Chem. 279:36268-36276(2004)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	51972260
NCBI GeneID	440738
NCBI Accession #	NP_001004343.1
NCBI GenBank Nucleotide #	NM_001004343.2
UniProt Accession #	Q9BXW4; A0PJY8; A2RUP0
Molecular Weight	16852
NCBI Official Full Name	microtubule-associated proteins 1A/1B light chain 3C
NCBI Official Synonym Full Names	microtubule-associated protein 1 light chain 3 gamma
NCBI Official Symbol	MAP1LC3C
NCBI Official Synonym Symbols	LC3C; ATG8J
NCBI Protein Information	microtubule-associated proteins 1A/1B light chain 3C
UniProt Protein Name	Microtubule-associated proteins 1A/1B light chain 3C
UniProt Gene Name	MAP1LC3C
UniProt Synonym Gene Names	MAP1A/MAP1B LC3 C
UniProt Entry Name	MLP3C_HUMAN

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.