

LC3 (APG8C) Antibody

ALTERNATE NAMES: MAP1LC3C; 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; Microtubule-associated protein 1 light chain 3 gamma

CATALOG #: 6950-100
AMOUNT: 100 µl
HOST/ISOTYPE: Rabbit Ig

IMMUNOGEN: 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.

INTERNAL ID: DM-21
MOLECULAR WEIGHT: ~17.00 kDa
FORM: Liquid

FORMULATION: In PBS with 0.09% (W/V) sodium azide.

PURIFICATION: This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

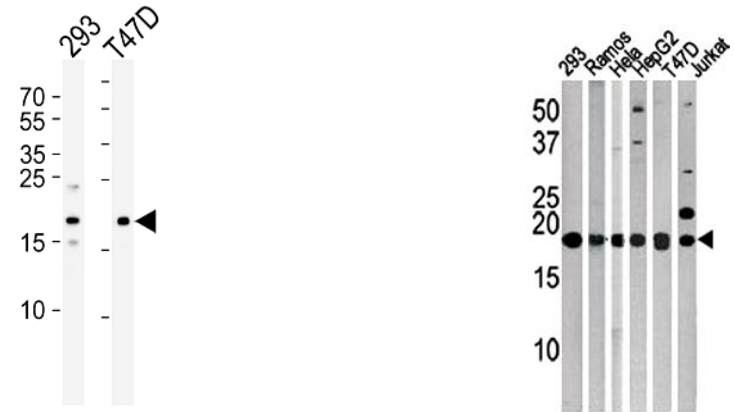
SPECIES REACTIVITY: Human.

STORAGE CONDITIONS: Maintain refrigerated at 2-8°C for up to 6 months. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

DESCRIPTION: Autophagy is an alternative process of proteasomal degradation for some long-lived proteins or organelles. Alterations in the autophagic-lysosomal compartment have been linked to neuronal death in many neurodegenerative disorders as well as in transmissible neuronal pathologies (prion diseases). Genetic studies in yeast have shown that Autophagy-defective Gene-8 (Atg-8) represents a specific marker for autophagy. Among the four families of mammalian Atg8-related proteins only LC3 (Microtubule-associated Protein1 Light Chain 3) is expressed at sufficient high levels and efficiently recruited to autophagic vesicles in cells and tissues. During autophagy the cytoplasmic form, LC3-I is processed and recruited to autophagosomes, where LC3-II is generated by site specific proteolysis near to the C-terminus. Autophagic vacuoles have been also reported frequently in cardiomyopathies or muscle cells exposed to different experimental settings.

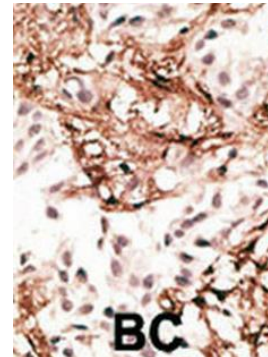
APPLICATION: WB: ~1:1000, IHC: 1:50-100.

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



Western blot analysis of lysates from 293, T47D cell line (from left to right), using APG8c (MAP1LC3C) Antibody (M1). The antibody 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 35 µg per lane.

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.



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.

RELATED PRODUCTS:

- LC3 (APG8) Antibody (Clone 166AT1234) (Cat # 3233-100)
- LC3 (APG8A) Antibody (Cat # 3235-100)
- LC3 (APG8B) (NT) Antibody (Cat # 6946-100)
- LC3A cleaved Antibody (Cat # 6947-100)
- LC3 (APG8A) (NT) Antibody (Cat # 6948-100)
- LC3B cleaved (NT) Antibody (Cat # 6949-100)
- Phospho-LC3C(S12) Antibody (Cat # 6951-100)

