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PRODUCT DATASHEET

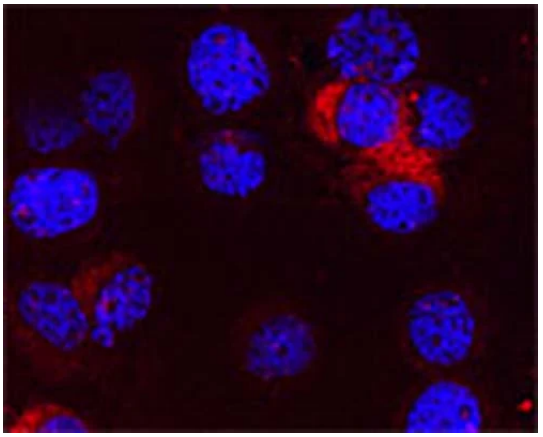
Anti-Autophagy-related protein 4 homolog C (ATG4C) Antibody

Product Details

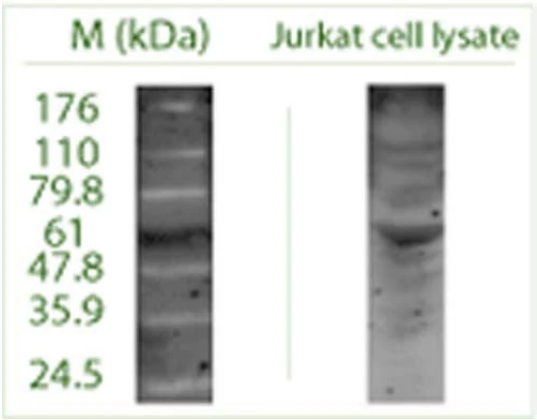
Available Variants	100 µL (SKU:R-156-100)
Conjugate	Unconjugated
Isotype	Mixed
Host Species	Rabbit
Format	Whole serum
Physical State	Lyophilized
Applications	IHC, WB
Dilution Ranges	WB: 1:100-1:2000 IHC: 1:100-1:2000
Species Reactivity	Human, Rat
Immunogen	A synthetic peptide (CTVYNSDVIDKQ) corresponding to the C-terminal of human ATG4C protein conjugated to Blue Carrier Protein has been used as the immunogen. The peptide is homologous with the corresponding sequence derived from ATG4C protein in mouse and rat.
Specificity	IHC, ELISA and WB confirmed the specificity for ATG4C. Human, rat. Other species not yet tested.
Storage	Spin vial briefly before opening. Reconstitute in 100 µL sterile-filtered, ultrapure water. Centrifuge to remove any insoluble material. After reconstitution keep aliquots at -20°C for a higher stability, and at 2-8°C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.
UniProt ID	Q96DT6 UniProt Summary: Cysteine protease that plays a key role in autophagy by mediating both proteolytic activation and delipidation of ATG8 family proteins. The protease activity is required for proteolytic activation of ATG8 family

	proteins: cleaves the C-terminal amino acid of ATG8 proteins MAP1LC3 and GABARAPL2, to reveal a C-terminal glycine. Exposure of the glycine at the C-terminus is essential for ATG8 proteins conjugation to phosphatidylethanolamine (PE) and insertion to membranes, which is necessary for autophagy. In addition to the protease activity, also mediates delipidation of ATG8 family proteins. Catalyzes delipidation of PE-conjugated forms of ATG8 proteins during macroautophagy. Compared to ATG4B, the major protein for proteolytic activation of ATG8 proteins, shows weaker ability to cleave the C-terminal amino acid of ATG8 proteins, while it displays stronger delipidation activity. In contrast to other members of the family, weakly or not involved in phagophore growth during mitophagy.
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.
NCBI Gene ID	84938

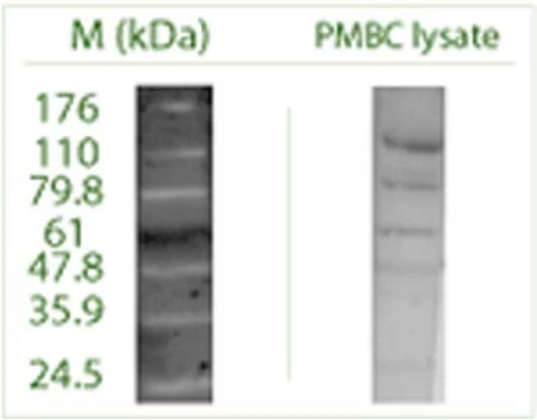
Product Images



Confocal microscopy on immunofluorescently detected APG4C in HL60 cell line using Rabbit antibody to ATG4C (APG4C): whole serum (R-156-100) at a dilution of 1: 100, incubated for 1 h at room temperature. The cells stained for APG4C appear in red. The cells were then counter stained with Hoechst Dye (blue colour). Here, the merged picture is presented.



Western blot (non-reducing) on Jurkat cell lysate using Rabbit antibody to ATG4C (APG4C): whole serum (R-156-100).



Western blot on Peripheral Blood Mononuclear Cells (PMBC) lysate using Rabbit antibody to ATG4C (APG4C): whole serum (R-156-100) at a dilution of 1: 100 (ECL).