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ARG54819
anti-ATG4C antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ATG4C
Tested Reactivity	Hu, Ms
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ATG4C
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 419-448 (C-terminus) of Human ATG4C.
Conjugation	Un-conjugated
Alternate Names	Cysteine protease ATG4C; Autophagin-3; AUT-like 3 cysteine endopeptidase; Autophagy-related protein 4 homolog C; APG4C; APG4-C; Autophagy-related cysteine endopeptidase 3; EC 3.4.22.-; AUTL3; AUTL1

Application Instructions

Application table

Application	Dilution
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 liver

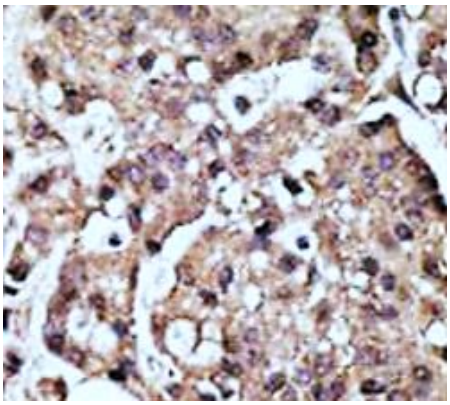
Properties

Form	Liquid
Purification	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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

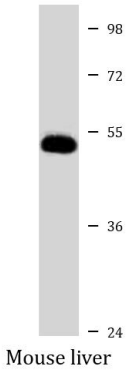
Database links	GeneID: 242557 Mouse GeneID: 84938 Human Swiss-port # Q811C2 Mouse Swiss-port # Q96DT6 Human
Gene Symbol	ATG4C
Gene Full Name	autophagy related 4C, cysteine peptidase
Background	Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. Reduced levels of autophagy have been described in some malignant tumors, and a role for autophagy in controlling the unregulated cell growth linked to cancer has been proposed. This gene encodes a member of the autophagin protein family. The encoded protein is also designated as a member of the C-54 family of cysteine proteases. Alternate transcriptional splice variants, encoding the same protein, have been characterized. [provided by RefSeq, Jul 2008]
Function	Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Is not essential for autophagy development under normal conditions but is required for a proper autophagic response under stressful conditions such as prolonged starvation (By similarity). Cleaves the C-terminal amino acid of ATG8 family 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. Has also an activity of delipidating enzyme for the PE-conjugated forms. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Metabolism antibody
Calculated Mw	52 kDa
Cellular Localization	Cytoplasm.

Images



ARG54819 anti-ATG4C antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human cancer tissue stained with ARG54819 anti-ATG4C antibody.



ARG54819 anti-ATG4C antibody WB image

Western blot: 35 µg of Mouse liver lysate stained with ARG54819 anti-ATG4C antibody at 1:1000 dilution.