ARG55141
anti-ATG16L antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ATG16L
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ATG16L
Species	Human
Immunogen	KLH-conjugated synthetic peptide from Human ATG16L.
Conjugation	Un-conjugated
Alternate Names	IBD10; APG16L; ATG16L; WDR30; Autophagy-related protein 16-1; APG16-like 1; ATG16A

Application Instructions

Application table

Application	Dilution
ICC/IF	1:100
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: HeLa

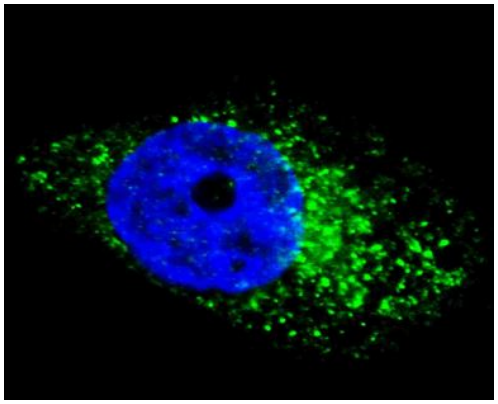
Properties

Form	Liquid
Purification	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

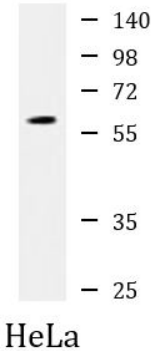
Database links	GeneID: 55054 Human Swiss-port # Q676U5 Human
Gene Symbol	ATG16L1
Gene Full Name	autophagy related 16-like 1
Background	The protein encoded by this gene is part of a large protein complex that is necessary for autophagy, the major process by which intracellular components are targeted to lysosomes for degradation. Defects in this gene are a cause of susceptibility to inflammatory bowel disease type 10 (IBD10). Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jun 2010]
Function	Plays an essential role in autophagy: interacts with ATG12-ATG5 to mediate the conjugation of phosphatidylethanolamine (PE) to LC3 (MAP1LC3A, MAP1LC3B or MAP1LC3C), to produce a membrane-bound activated form of LC3 named LC3-II. Thereby, controls the elongation of the nascent autophagosomal membrane. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Metabolism antibody; Neuroscience antibody
Calculated Mw	68 kDa
PTM	Proteolytic cleavage by activated CASP3 leads to degradation and may regulate autophagy upon cellular stress and apoptotic stimuli. Phosphorylation at Ser-139 promotes association with the ATG12-ATG5 conjugate to form the ATG12-ATG5-ATG16L1 complex.
Cellular Localization	Cytoplasm. Preautophagosomal structure membrane; Peripheral membrane protein. Note=Recruited to omegasomes membranes by WIPI2 Omegasomes are endoplasmic reticulum connected strutures at the origin of preautophagosomal structures. Localized to preautophagosomal structure (PAS) where it is involved in the membrane targeting of ATG5. Localizes also to discrete punctae along the ciliary axoneme. {ECO:0000250|UniProtKB:Q8C0J2}

Images



ARG55141 anti-ATG16L antibody ICC/IF image

Immunofluorescence: U251 cells were treated with Chloroquine (50 µM, 16 hours), then fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then stained with ARG55141 anti-ATG16L antibody (green) at 1:100 dilution, 2 hours at room temperature. Nuclei were counterstained with Hoechst 33342 (blue) (10 µg/ml, 5 min).



ARG55141 anti-ATG16L antibody WB image

Western blot: 35 µg of HeLa cell lysate stained with ARG55141 anti-ATG16L antibody.