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ARG54825
anti-ATG9A antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ATG9A
Tested Reactivity	Hu
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ATG9A
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 717-746 (C-terminus) of Human ATG9A.
Conjugation	Un-conjugated
Alternate Names	APG9L1; MGD3208; APG9-like 1; mATG9; Autophagy-related protein 9A

Application Instructions

Application table

Application	Dilution
ICC/IF	1:100
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	A375

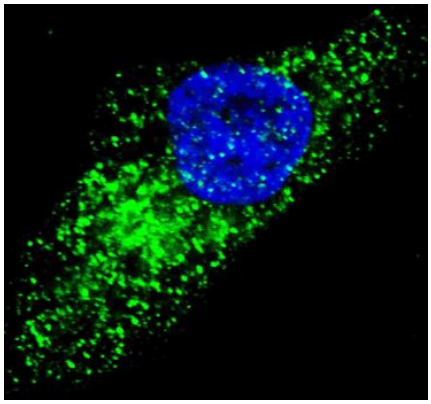
Properties

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

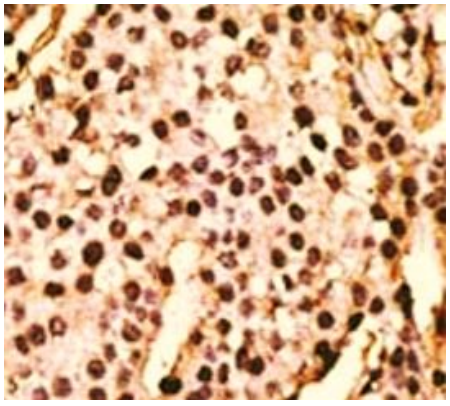
Database links	GeneID: 79065 Human Swiss-port # Q7Z3C6 Human
Gene Symbol	ATG9A
Gene Full Name	autophagy related 9A
Function	Involved in autophagy and cytoplasm to vacuole transport (Cvt) vesicle formation. Plays a key role in the organization of the preautophagosomal structure/phagophore assembly site (PAS), the nucleating site for formation of the sequestering vesicle. Cycles between a juxta-nuclear trans-Golgi network compartment and late endosomes. Nutrient starvation induces accumulation on autophagosomes. Starvation-dependent trafficking requires ULK1, ATG13 and SUPT20H. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Metabolism antibody; Neuroscience antibody
Calculated Mw	94 kDa
Cellular Localization	Cytoplasmic vesicle, autophagosome membrane; Multi-pass membrane protein. Golgi apparatus, trans-Golgi network membrane; Multi-pass membrane protein. Late endosome membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. Note=Under amino acid starvation or rapamycin treatment, redistributes from a juxtanuclear clustered pool to a dispersed peripheral cytosolic pool. The starvation- induced redistribution depends on ULK1, ATG13, as well as SH3GLB1

Images



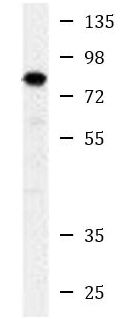
ARG54825 anti-ATG9A antibody ICC/IF image

Immunofluorescence: U251 cells were treated with Chloroquine (50 µM, 16h), then fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then stained with ARG54825 anti-ATG9A antibody (green) at 1:100 dilution, 2 h at room temperature. Nuclei were counterstained with Hoechst 33342 (blue) (10 µg/ml, 5 min). ATG9A immunoreactivity is localized to autophagic vacuoles in the cytoplasm of U251 cells.



ARG54825 anti-ATG9A antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human breast cancer tissue stained with ARG54825 anti-ATG9A antibody.



ARG54825 anti-ATG9A antibody WB image

Western blot: 35 µg of A375 cell lysate stained with ARG54825 anti-ATG9A antibody.