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Product datasheet for TA336522

ATG9A Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, ICC/IF, IHC, IP, WB
Recommended Dilution:	Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin: 1:100-1:250, Western Blot: 2 ug/ml, Flow Cytometry, Immunohistochemistry: 1:100-1:250
Reactivity:	Human, Mouse, Rat, Bovine, Chicken, Primate
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to a region within the C-terminus of human ATG9A (between residues 750-839). [Swiss-Prot# Q7Z3C6].
Formulation:	PBS, 30% glycerol, 0.1% Sodium Azide. Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	95 kDa
Gene Name:	autophagy related 9A
Database Link:	NP_076990 Entrez Gene 245860 MouseEntrez Gene 363254 RatEntrez Gene 79065 Human Q7Z3C6

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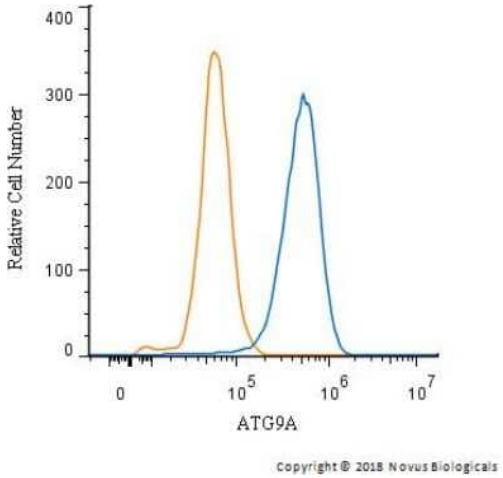
Background: ATG9A (autophagy-related protein 9A) is the only transmembrane member identified among the classical ATG proteins family which are essential to autophagy. Yeast ATG9 protein localizes to the pre-autophagosomal structure (PAS) as well as cytoplasmic punctate structures, whereas, the mammalian ATG9A localizes to endocytic compartments, the trans-Golgi network and autophagic membranes. Moreover, ATG9 is recruited to the PAS in an ATG11-dependent manner under nutrient-rich conditions, whereas during starvation, recruitment of ATG9 depends on Atg17p. ATG9A does not steadily reside at one place in cells, but rather dynamically shuttles between a juxta-nuclear trans-Golgi network compartment and late endosomes under autophagic or starvation conditions. Moreover, ATG9A accumulation is upregulated upon starvation in autophagosomes and the starvation-dependent trafficking requires ULK1, ATG13 and SUPT20H. ATG9A interacts with SUPT20H and has been proposed to mediate membrane transport to generate autophagosomes.

Synonyms: APG9L1; mATG9; MGD3208

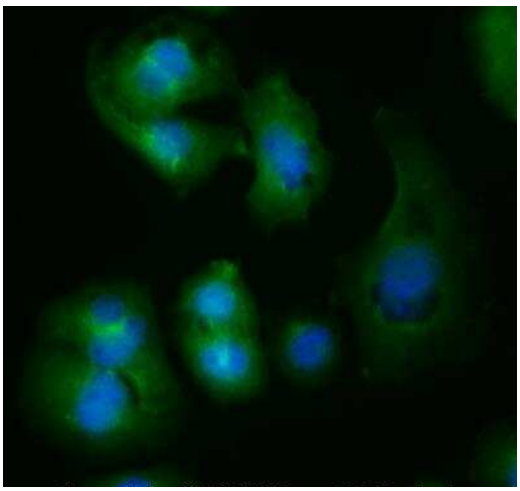
Note: This ATG9A antibody is useful for Immunohistochemistry paraffin embedded sections and Western blot. In Western blot this antibody recognizes a band at ~95 kDa, representing ATG9A protein. Boiling samples prior to running the gel may affect the protein. Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID 24705551)

Protein Families: Transmembrane

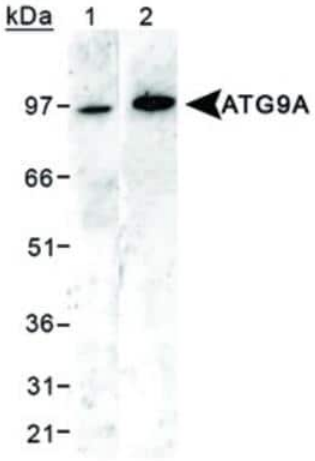
Product images:



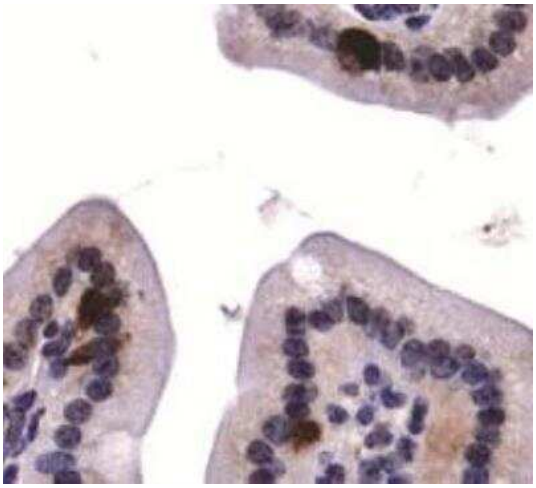
Flow Cytometry: ATG9A Antibody TA336522 - An intracellular stain was performed on Hela Cells with TA336522 and a matched isotype control. Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature, followed by Rabbit IgG APC-conjugated Secondary Antibody (R&D Systems, F0111).



Immunocytochemistry/Immunofluorescence: ATG9A Antibody TA336522 - Neuro2a cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton X-100. The cells were incubated with anti-ATG9A at 2 ug/ml overnight at 4C and detected with an anti-rabbit DyLight 488 (Green) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Western Blot: ATG9A Antibody TA336522 - Detection of ATG9A protein in HEK293 lysates using TA336522. (1) siRNA ATG9A knockdown and (2) wildtype ATG9A.



Immunohistochemistry: ATG9A Antibody TA336522 - Staining in mouse intestine.