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Datasheet for 600-401-Y89

ATG9B Antibody

Overview

Description:	Anti-ATG9B (RABBIT) Antibody - 600-401-Y89
Item No.:	600-401-Y89
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-lysosomal pathway is important for normal growth control and may be defective in tumor cells. It is involved in the preservation of cellular nutrients under starvation conditions as well as the normal turnover of cytosolic components. This process is negatively regulated by TOR (Target of rapamycin) through phosphorylation of autophagy protein APG1. ATG9B plays a role in autophagy and it's highly expressed in placenta and pituitary gland.
Synonyms:	ATG9B Antibody, SONE, APG9L2, NOS3AS, Autophagy-related protein 9B, APG9-like 2, Protein sONE
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ATG9B
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ATG9B antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the C-terminus of human ATG9B. The immunogen is located within amino acids 850 - 900 of ATG9B.

Purity/Specificity:	Anti-ATG9B Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with ATG9B from other sources has not been determined.
Relevant Links:	• UniProtKB - Q674R7 • GeneID - 285973 • NCBI - NP_775952

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-ATG9B Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 101 kDa in Western Blots of specific cell lysates and tissues. Positive control: HeLa cell.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
WB:	1 - 2 µg/mL

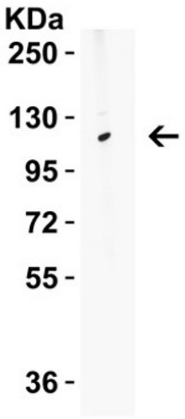
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

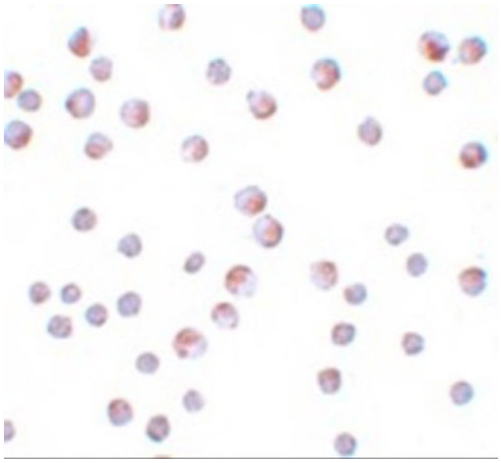
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Expiration:	Expiration date is one (1) year from date of receipt.

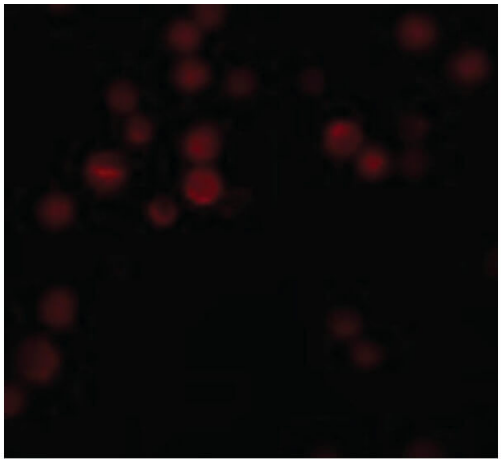
Images



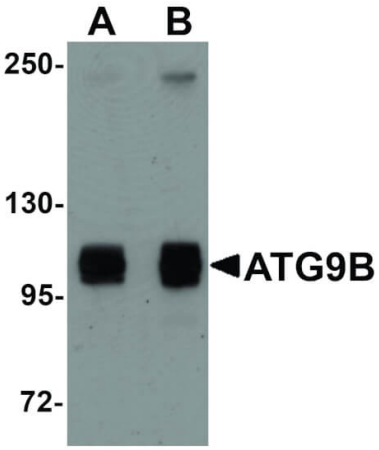
Western Blot
Western Blot Validation of ATG9B.
Load: 15 µg of human tonsil lysate.
Primary antibody: ATG9B at 2 µg/mL for 1 h incubation at RT in 5% NFDM/TBST.
Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



Immunocytochemistry
Immunocytochemistry of ATG9B.
Cell: HeLa cells.
Primary Antibody: ATG9B antibody at 10 µg/mL.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of ATG9B antibody. Tissue: Human kidney tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: ATG9B antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ATG9B is cytoplasmic. Staining: ATG9B as red fluorescent signal.



Western Blot

Western Blot of ATG9B antibody. Lane 1: HeLa cell lysate with ATG9B antibody at 1 µg/mL. Lane 2: HeLa cell lysate with ATG9B antibody at 2 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.
Predicted/Observed size: 101 kDa, 101 kDa for ATG9B. Other band(s): ATG9B splice variants and isoforms.

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