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Datasheet for 600-401-Y80

ATG2B Antibody

Overview

Description:	Anti-ATG2B (RABBIT) Antibody - 600-401-Y80
Item No.:	600-401-Y80
Size:	100 µg
Applications:	ELISA, IF, WB
Reactivity:	Human
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. Another member of the autophagy family of proteins is ATG2B, one of two homologs of ATG2 that is essential for autophagosome formation and important for regulation of size and distribution of lipid droplets. Relatively high rates of ATG2B mutations were observed in gastric and colorectal carcinomas, suggesting that deregulating the autophagy process may contribute to cancer development.
Synonyms:	ATG2B Antibody, C14orf103, C14orf103, Autophagy-related protein 2 homolog B
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ATG2B
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ATG2B antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the N-terminus of human ATG2B.

Purity/Specificity:	Anti-ATG2B Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. ATG2B antibody is predicted to not cross-react with other ATG2A.
Relevant Links:	• UniProtKB - Q96BY7 • GeneID - 55102 • NCBI - NP_060506

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	Anti-ATG2B Antibody has been tested for use in ELISA, Western Blotting and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 233 kDa in Western Blots of specific cell lysates and tissues.
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

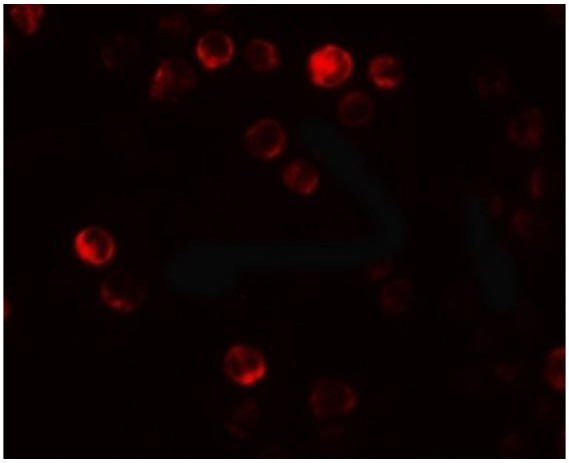
Formulation

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

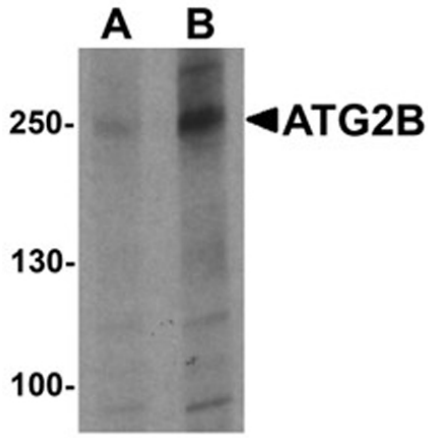
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy
Immunofluorescence of ATG2B.
Cell: K562 cells.
Primary Antibody: ATG2B antibody at 20 µg/mL.



Western Blot
Western blot analysis of ATG2B.
Load: K562 cell lysate.
Primary Antibody: ATG2B antibody at (A) 1 and (B) 2 µg/ml.

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