

Datasheet for 600-401-Y73**ATG10 Antibody****Overview**

Description:	Anti-ATG10 (RABBIT) Antibody - 600-401-Y73
Item No.:	600-401-Y73
Size:	100 µg
Applications:	ELISA, 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. Another member of the autophagy protein family is ATG10, an E2-like enzyme involved in two ubiquitin-like modifications essential for autophagosome formation: ATG12-ATG5 conjugation and the modification of a soluble form of MAP-LC3, a homolog of yeast Apg8, to a membrane-bound form. ATG10 has also been shown to interact with ATG12 in human embryonic kidney cells in the presence of ATG7. Multiple isoforms of ATG10 are known to exist.
Synonyms:	ATG10 Antibody, APG10, APG10L, pp12616, PP12616, Ubiquitin-like-conjugating enzyme ATG10, Autophagy-related protein 10, APG10-like
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ATG10
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-ATG10 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide from near the C-terminus of human ATG10.
Purity/Specificity:	Anti-ATG10 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with ATG10 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9H0Y0 • GeneID - 83734 • NCBI - EAW95884

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-ATG10 Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 25 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:	1:5000 - 1:20,000
WB:	0.5 - 2 µg/mL

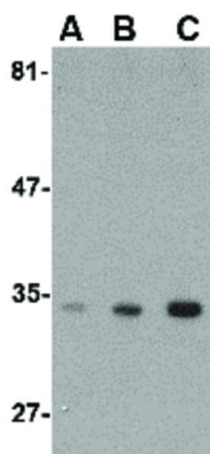
Formulation

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:	Antibody can be stored at 4°C up to one year. 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 of ATG10 antibody. Lane A: SK-N-SH cell lysate at 0.5 $\mu\text{g/mL}$. Lane B: SK-N-SH cell lysate at 1 $\mu\text{g/mL}$.

Lane C: SK-N-SH cell lysate at 2 $\mu\text{g/mL}$.

Load: 35 μg per lane. 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: 25.2 kDa, ~34 kDa for ATG10.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.