

Datasheet for 600-401-Y92**ATP11A Antibody****Overview**

Description:	Anti-ATP11A (RABBIT) Antibody - 600-401-Y92
Item No.:	600-401-Y92
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	ATP11A is a widely expressed integral membrane ATPase. ATP11A is probably phosphorylated in its intermediate state and likely drives the transport of ions such as calcium or other molecules across membranes. While the exact molecule ATP11A transports is unknown, increased expression of ATP11A mRNA has been observed in murine leukemia cells made resistant to anti-cancer drugs such as farnesyltransferase inhibitors (FTIs). Furthermore, overexpression of ATP11A provided protection against the FTI SCH66336 while knockdown of ATP11A via siRNA made cells more sensitive to this drug. Other reports suggest that elevated levels of ATP11A mRNA may also be a predictive marker of metastasis in colorectal cancer patients.
Synonyms:	ATP11A Antibody, ATP1H, ATPIS, ATPIH, KIAA1021, Probable phospholipid-transporting ATPase 1H, ATPase 1S
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ATP11A
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ATP11A antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the N-terminus of human ATP11A.

Purity/Specificity: Anti-ATP11A Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with ATP11A from other sources has not been determined.

Relevant Links:

- [UniProtKB - P98196](#)
- [GeneID - 23250](#)
- [NCBI - NP_115565](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-ATP11A 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 130 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

IF: 20 µg/mL

WB: 1 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 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

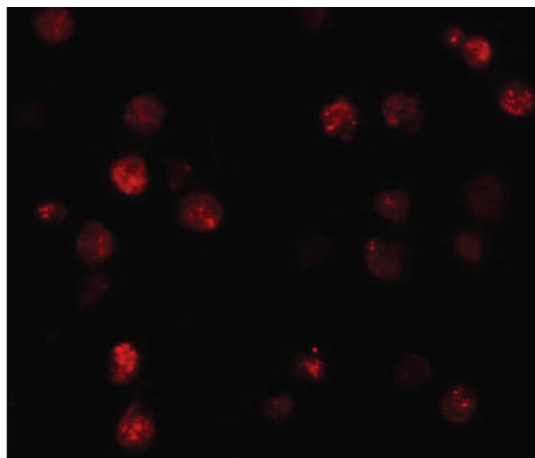
Shipping & Handling

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.

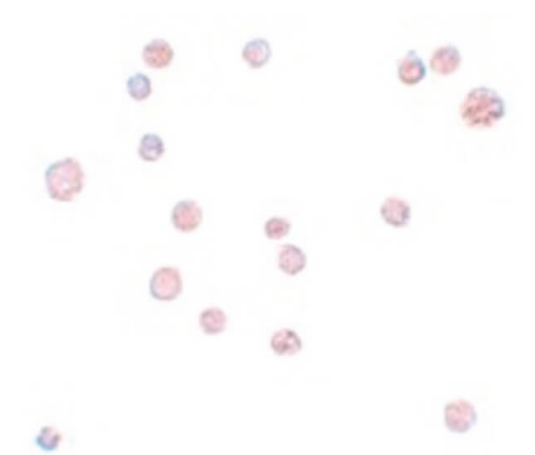
Expiration: Expiration date is one (1) year from date of receipt.

Images



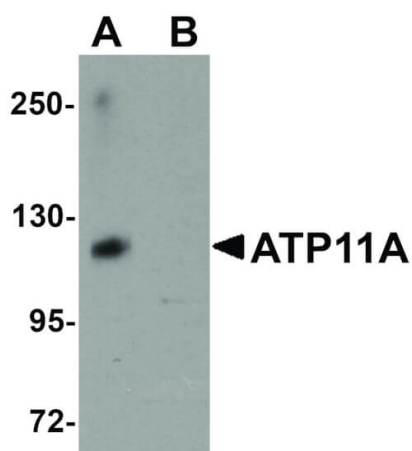
Immunofluorescence Microscopy

Immunofluorescence Microscopy of ATP11A antibody.
 Tissue: K562 cells. Fixation: 0.5% PFA. Antigen retrieval:
 not required. Primary antibody: ATP11A antibody at 20
 $\mu\text{g/mL}$ for 1 h at RT. Secondary antibody: Fluorescein rabbit
 secondary antibody at 1:10,000 for 45 min at RT.
 Localization: ATP11A is a membrane protein. Staining:
 ATP11A as red fluorescent signal.



Immunohistochemistry

Immunocytochemistry of ATP11A antibody. Tissue: K562
 cells. Fixation: formalin fixed paraffin embedded. Antigen
 retrieval: not required. Primary antibody: ATP11A antibody
 at 10 $\mu\text{g/mL}$ for 1 h at RT. Secondary antibody: Peroxidase
 rabbit secondary antibody at 1:10,000 for 45 min at RT.
 Localization: ATP11A is a membrane protein. Staining:
 ATP11A as precipitated blue signal with pink nuclear
 counterstain.



Western Blot

Western Blot of ATP11A antibody. Lane 1: K562 cell tissue
 lysate in the absence of blocking peptide. Lane 2: K562 cell
 tissue lysate in the presence of blocking peptide. Primary
 Antibody: Anti-ATP11A antibody at 1 $\mu\text{g/mL}$. 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: 130 kDa, 120 kDa for ATP11A.
 Other band(s): ATP11A splice variants and isoforms.

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.