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Datasheet for 600-401-Y95

ATP2C2 Antibody

Overview

Description:	Anti-ATP2C2 (RABBIT) Antibody - 600-401-Y95
Item No.:	600-401-Y95
Size:	100 µg
Applications:	ELISA, IF, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	ATP2C2, also known as secretory pathway Ca2+/Mn2+-ATPase (SPCA) 2, belongs to the family of P-type cation transport ATPases. This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of the calcium from the cytosol to the Golgi lumen. Defects in the related gene ATP2C1 cause Hailey-Hailey disease, for which ATP2C2 does not compensate, suggesting that ATP2C2 plays other physiological roles. Unlike ATP2C1, ATP2C2 has a much more restricted expression pattern and displays a higher maximal turnover rate for overall Ca2+-ATPase reaction and a lower apparent affinity for cytosolic Ca2+ activation of phosphorylation. Overexpression of ATP2C2 in mammary tumors result a Ca2+ influx via the store-operated Ca2+ channel ORAI1 and independent of the STIM1 and STIM2 sensors.
Synonyms:	ATP2C2 Antibody, SPCA2, KIAA0703, SPCA2, Calcium-transporting ATPase type 2C member 2, ATPase 2C2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ATP2C2
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-ATP2C2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the N-terminus of human ATP2C2.
Purity/Specificity:	Anti-ATP2C2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least three isoforms of ATP2C2 are known to exist. ATP2C2 antibody will not cross-react with ATP2C1
Relevant Links:	• UniProtKB - O75185 • GeneID - 9914 • NCBI - NP_055676

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	Anti-ATP2C2 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 103 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

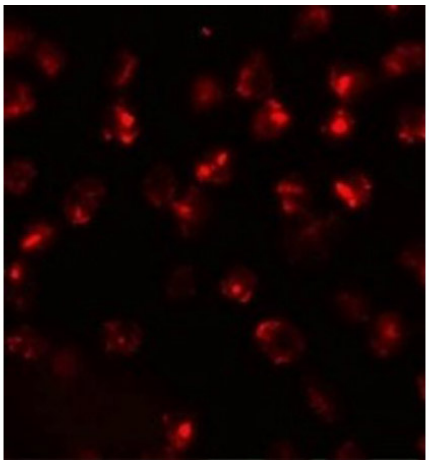
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

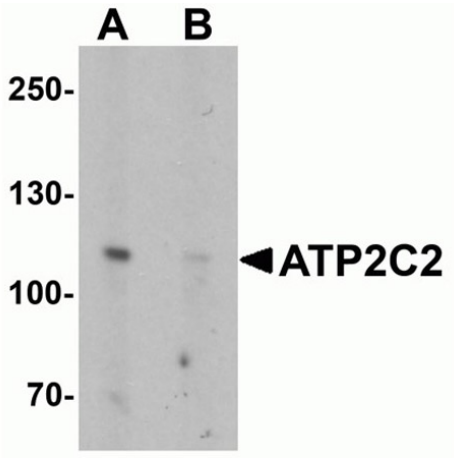
Shipping Condition:	Dry Ice

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 of ATP2C2.
Cell: 3T3 cells.
Primary Antibody: ATP2C2 antibody at 20 µg/mL.



Western Blot
Western blot analysis of ATP2C2.
Load: 3T3 cell lysate.
Primary Antibody: ATP2C2 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.

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.