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Datasheet for 600-401-Y94

ATP2C1 Antibody

Overview

Description:	Anti-ATP2C1 (RABBIT) Antibody - 600-401-Y94
Item No.:	600-401-Y94
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	ATP2C1, also known as secretory pathway Ca2+/Mn2+-ATPase (SPCA) 1, 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 this gene cause Hailey-Hailey disease, an autosomal dominant disorder characterized by persistent blisters and erosions of the skin. Unlike the related protein ATP2C2, ATP2C1 is ubiquitously expressed and displays a lower maximal turnover rate for overall Ca2+-ATPase reaction and a higher apparent affinity for cytosolic Ca2+ activation of phosphorylation. Recent evidence suggests that ATP2C1 is a key regulator of insulin-like growth factor receptor (IGF1R) processing in tumor progression in basal breast cancers.
Synonyms:	ATP2C1 Antibody, HHD, BCPM, PMR1, SPCA1, hSPCA1, ATP2C1A, KIAA1347, PMR1L, HUSSY-28, Calcium-transporting ATPase type 2C member 1, ATPase 2C1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ATP2C1
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-ATP2C1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the C-terminus of human ATP2C1.
Purity/Specificity:	Anti-ATP2C1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least four isoforms of ATP2C1 are known to exist; this antibody will recognize only the three longest isoforms. ATP2C1 antibody will not cross-react with ATP2C2.
Relevant Links:	• UniProtKB - P98194 • GeneID - 27032 • NCBI - NP_001001486

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-ATP2C1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry 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.
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
IHC:	5 µg/mL
WB:	1 µg/mL

Formulation

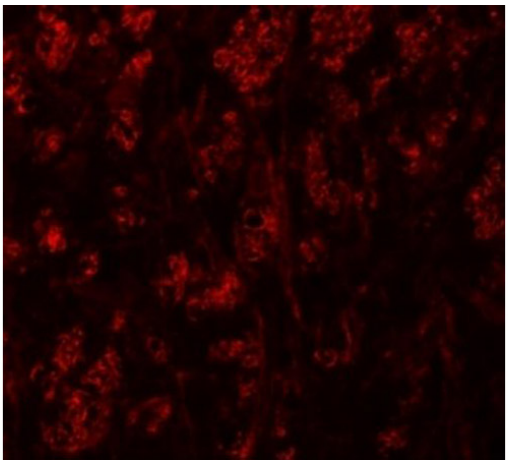
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

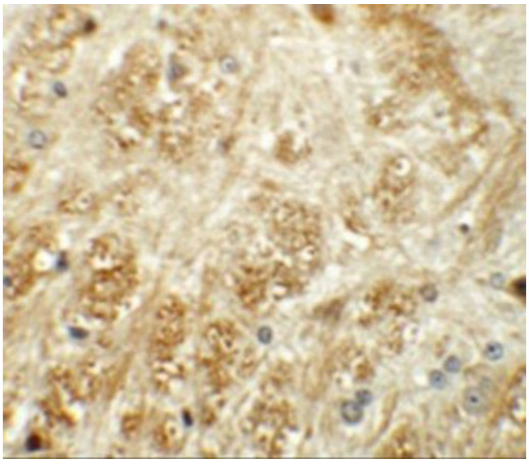
Shipping Condition:	Dry Ice

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.

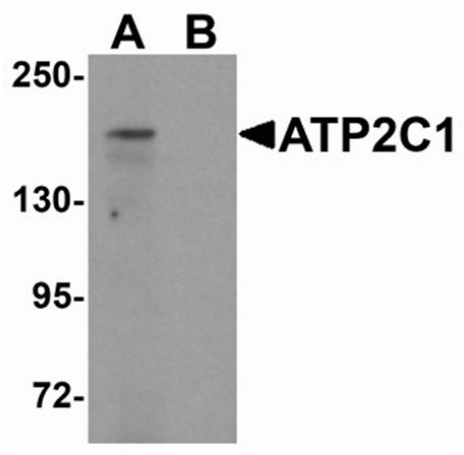
Images



Immunofluorescence Microscopy
Immunofluorescence of ATP2C1.
Tissue: mouse brain tissue.
Primary Antibody: ATP2C1 antibody at 20 µg/mL.



Immunohistochemistry
Immunohistochemistry of ATP2C1.
Tissue: mouse brain tissue.
Primary Antibody: ATP2C1 antibody at 5 µg/mL.



Western Blot
Western blot analysis of ATP2C1.
Load: mouse brain tissue lysate.
Primary Antibdoy: ATP2C1 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.

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