

[Go to Product page](#)

Datasheet for ABIN6991522
anti-ATP2C2 antibody (N-Term)

Overview

Quantity:	0.1 mg
Target:	ATP2C2
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP2C2 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	ATP2C2 antibody was raised against a 19 amino acid synthetic peptide near the amino terminus of human ATP2C2. The immunogen is located within the first 50 amino acids of ATP2C2.
Isotype:	IgG
Specificity:	At least three isoforms of ATP2C2 are known to exist. ATP2C2 antibody will not cross-react with ATP2C1
Purification:	ATP2C2 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	ATP2C2
Alternative Name:	ATP2C2 (ATP2C2 Products)

Target Details

Background:	ATP2C2 Antibody: ATP2C2, also known as secretory pathway Ca ²⁺ /Mn ²⁺ -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 Ca ²⁺ -ATPase reaction and a lower apparent affinity for cytosolic Ca ²⁺ activation of phosphorylation. Overexpression of ATP2C2 in mammary tumors result a Ca ²⁺ influx via the store-operated Ca ²⁺ channel ORAI1 and independent of the STIM1 and STIM2 sensors.
Gene ID:	9914
NCBI Accession:	NP_055676
UniProt:	O75185
Pathways:	Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	ATP2C2 antibody can be used for detection of ATP2C2 by Western blot at 1 µg/mL. Antibody can also be used for immunofluorescence starting at 20 µg/mL. For immunofluorescence start at 20 µg/mL. Antibody validated: Western Blot in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	ATP2C2 Antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	-20 °C, 4 °C
----------	--------------

Storage Comment:	ATP2C2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
------------------	--