

Product datasheet for **TA319799**

SPCA2 (ATP2C2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 1 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	ATP2C2 antibody was raised against a 19 amino acid synthetic peptide near the amino terminus of human ATP2C2.
Formulation:	ATP2C2 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	ATP2C2 Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	ATPase secretory pathway Ca ²⁺ transporting 2
Database Link:	NP_055676 Entrez Gene 69047 Mouse Entrez Gene 9914 Human O75185



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Background:

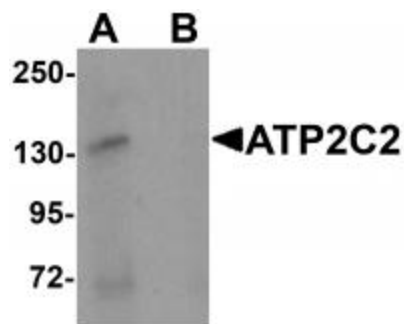
ATP2C2 Antibody: ATP2C2, also known as secretory pathway $\text{Ca}^{2+}/\text{Mn}^{2+}$ -ATPase (SPCA) 2, belongs to the family of P-type cation transport ATPases. This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of the calcium from the cytosol to the Golgi 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.

Synonyms:

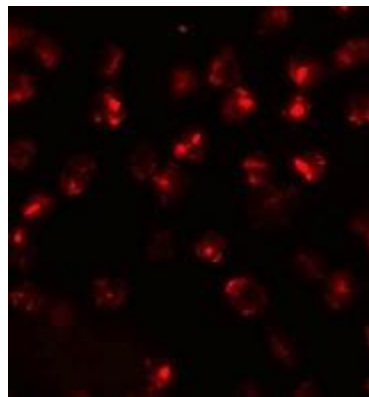
SPCA2

Protein Families:

Druggable Genome, Transmembrane

Product images:

Western blot analysis of ATP2C2 in 3T3 cell lysate with ATP2C2 antibody at 1 $\mu\text{g}/\text{mL}$ in (A) the absence and (B) the presence of blocking peptide



Immunofluorescence of ATP2C2 in 3T3 cells with ATP2C2 antibody at 20 $\mu\text{g}/\text{mL}$.