
ATP2C2 Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 254460

Unit: 0.1 mg

Description:

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.

Isotype: Rabbit Ig

Applications: E, WB

Species Reactivity: H, M

Format: Each vial contains 0.1 ml IgG in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.

Alternate Names: Calcium-transporting ATPase type 2C member 2; PMR1; SPCA2; hSPCA2

Accession No.: NP_055676

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within human ATP2C2.

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500

Storage: Store at -20°C . Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.