Datasheet for ABIN6991521

anti-ATP2C1 antibody (C-Term)

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Overview

Quantity:	0.1 mg
Target:	ATP2C1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP2C1 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	ATP2C1 antibody was raised against a 19 amino acid synthetic peptide near the carboxy terminus of human ATP2C1. The immunogen is located within the last 50 amino acids of ATP2C1.
Isotype:	IgG
Specificity:	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.
Purification:	ATP2C1 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	ATP2C1

Target Details

Alternative Name:	ATP2C1 (ATP2C1 Products)
Background:	ATP2C1 Antibody: 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.
Gene ID:	27032
NCBI Accession:	NP_001001486
UniProt:	P98194
Pathways:	Transition Metal Ion Homeostasis, Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	ATP2C1 antibody can be used for detection of ATP2C1 by Western blot at 1 µ,g/mL. Antibody can also be used for immunohistochemistry starting at 5 µ,g/mL. For immunofluorescence start at 20 µ,g/mL. Antibody validated: Western Blot in mouse samples, Immunohistochemistry 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:	ATP2C1 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:	ATP2C1 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.