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Product datasheet for TA319887

ATP2C1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	ATP2C1 antibody was raised against a 19 amino acid synthetic peptide near the carboxy terminus of human ATP2C1.
Formulation:	ATP2C1 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	ATP2C1 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 Ca2+ transporting 1
Database Link:	NP_001001486 Entrez Gene 27032 Human P98194

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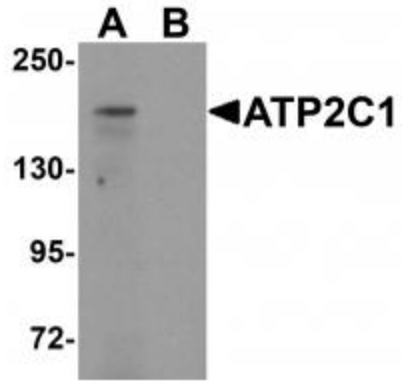
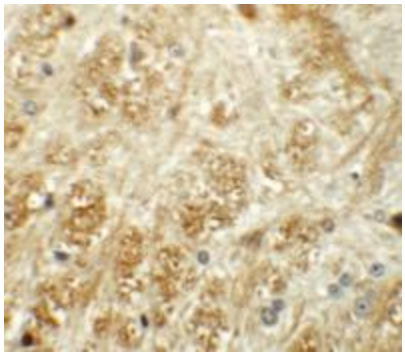
Background: ATP2C1 Antibody: ATP2C1, also known as secretory pathway Ca2+/Mn2+-ATPase (SPCA) 1, belongs to the family of P-type cation transport ATPases. This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of the calcium from the cytosol to the Golgi lumen. Defects 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.

Synonyms: ATP2C1A; BCPM; HHD; hSPCA1; PMR1; SPCA1

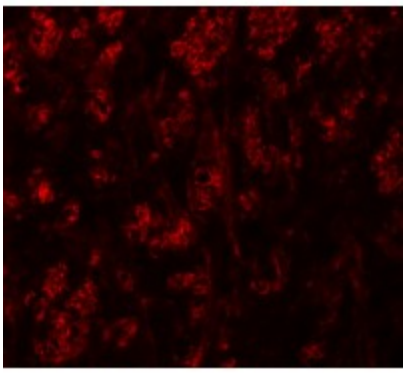
Product images:



Western blot analysis of ATP2C1 in mouse brain tissue lysate with ATP2C1 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of ATP2C1 in mouse brain tissue with ATP2C1 antibody at 5 ug/mL.



Immunofluorescence of ATP2C1 in mouse brain tissue with ATP2C1 antibody at 20 ug/mL.