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Rabbit Anti-SPCA2 antibody

SL17639R

Product Name:	SPCA2
Chinese Name:	ATP酶2C2抗体
Alias:	AT2C2_HUMAN; ATP2C2; ATPase 2C2; ATPase, Ca++ transporting, type 2C, member 2; Calcium-transporting ATPase type 2C member 2; DKFZp686H22230; hSPCA2; KIAA0703; PMR1; Secretory pathway Ca(2+)-ATPase 2; secretory pathway calcium ATPase 2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	103kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SPCA2:421-520/946<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The family of P-type Ca2+-transport ATPases is made up of three subfamilies: sarco(endo)plasmic-reticulum Ca2+ ATPases (SERCA), plasma- membrane Ca2+ ATPases (PMCA), and secretory-pathway Ca2+ ATPases (SPCA). The SPCA1 protein

(encoded for by the ATP2C1 gene) is a Ca2+/ Mn2+-transport ATPase. It localizes to the Golgi apparatus and, together with SERCA2, it is responsible for the ionic milieu in the Golgi lumen. SPCA2 (encoded by the ATP2C2 gene) also localizes to the golgi apparatus and has a higher enzymatic turnover rate than that of SPCA1 while having a high affinity for cytosolic Ca2+. The enzymatic properties of the human SPCA2 enzyme and the restriction of its tissue expression to the gastrointestinal and respiratory tracts, prostate, thyroid, salivary, and mammary glands may, in principle ,define a Ca2+-ATPase pump with a specific physiological role in secretory cells.

Function:
This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of calcium.

Subcellular Location:
Membrane.

Tissue Specificity:
Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIA subfamily.

Similarity:
Belongs to the cation transport ATPase (P-type) (TC3.A.3) family. Type IIA subfamily.

SWISS:
O75185

Gene ID:
9914

Database links:

Entrez Gene: 9914 Human

Entrez Gene: 69047 Mouse

Entrez Gene: 171496 Rat

Omim: 613082 Human

SwissProt: O75185 Human

SwissProt: A7L9Z8 Mouse

SwissProt: Q8R4C1 Rat

Unigene: 6168 Human

Unigene: 46251 Mouse

	Unigene: 163411 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.