

**SPCA2 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP56773**

## Specification

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### SPCA2 Polyclonal Antibody - Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">O75185</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	103169

### SPCA2 Polyclonal Antibody - Additional Information

Gene ID 9914

#### Other Names

Calcium-transporting ATPase type 2C member 2, ATPase 2C2, 7.2.2.10, Secretory pathway Ca(2+)-ATPase 2, ATP2C2 ([HGNC:29103](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=29103)), KIAA0703, SPCA2

#### Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

#### Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

### SPCA2 Polyclonal Antibody - Protein Information

Name ATP2C2 ([HGNC:29103](#))

Synonyms KIAA0703, SPCA2

#### Function

ATP-driven pump that supplies the Golgi apparatus with Ca(2+) and Mn(2+) ions, both essential cofactors for processing and trafficking of newly synthesized proteins in the secretory pathway (PubMed:[15677451](http://www.uniprot.org/citations/15677451), PubMed:[15831496](http://www.uniprot.org/citations/15831496), PubMed:[16332677](http://www.uniprot.org/citations/16332677), PubMed:[30923126](http://www.uniprot.org/citations/30923126)). Within a catalytic cycle, acquires Ca(2+) or Mn(2+) ions on the cytoplasmic side of the membrane and delivers them to the luminal side. The transfer of ions across the membrane is coupled to ATP hydrolysis and is associated with a transient phosphorylation that shifts the pump conformation from inward-facing to outward-facing state (PubMed:[15831496](http://www.uniprot.org/citations/15831496), PubMed:[15831496](http://www.uniprot.org/citations/15831496)).

[16332677](http://www.uniprot.org/citations/16332677)). Induces Ca(2+) influx independently of its ATP-driven pump function. At the basolateral membrane of mammary epithelial cells, interacts with Ca(2+) channel ORAI1 and mediates Ca(2+) entry independently of the Ca(2+) content of endoplasmic reticulum or Golgi stores. May facilitate transepithelial transport of large quantities of Ca(2+) for milk secretion via activation of Ca(2+) influx channels at the plasma membrane and active Ca(2+) transport at the Golgi apparatus (PubMed:[20887894](http://www.uniprot.org/citations/20887894)), PubMed:[23840669](http://www.uniprot.org/citations/23840669)).

#### Cellular Location

Golgi apparatus, trans-Golgi network membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:A7L9Z8}; Multi-pass membrane protein

#### Tissue Location

Highly expressed in the gastrointestinal and respiratory tracts, prostate, thyroid, salivary, and mammary glands (PubMed:15831496). Expressed in colon epithelial cells (at protein level). Expressed in brain and testis (at protein level) (PubMed:15677451).

### SPCA2 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### SPCA2 Polyclonal Antibody - Images