

**SERCA1 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51003**

**Specification**

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**SERCA1 Antibody - Product Information**

Application	<b>WB, IP, IHC-P, E</b>
Primary Accession	<a href="#">O14983</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>110 KDa</b>

**SERCA1 Antibody - Additional Information**

**Gene ID** 487

**Other Names**

Sarcoplasmic/endoplasmic reticulum calcium ATPase 1, SERCA1, SR Ca(2+)-ATPase 1, Calcium pump 1, Calcium-transporting ATPase sarcoplasmic reticulum type, fast twitch skeletal muscle isoform, Endoplasmic reticulum class 1/2 Ca(2+) ATPase, ATP2A1

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**SERCA1 Antibody - Protein Information**

**Name** ATP2A1 ([HGNC:811](#))

**Function**

Key regulator of striated muscle performance by acting as the major Ca(2+) ATPase responsible for the reuptake of cytosolic Ca(2+) into the sarcoplasmic reticulum. Catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen (By similarity). Contributes to calcium sequestration involved in muscular excitation/contraction (PubMed:[10914677](http://www.uniprot.org/citations/10914677)).

**Cellular Location**

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P04191}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P04191}. Sarcoplasmic reticulum membrane {ECO:0000250|UniProtKB:P04191}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P04191}

**Tissue Location**

Skeletal muscle, fast twitch muscle (type II) fibers.

## **SERCA1 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](#)

## **SERCA1 Antibody - Images**

## **SERCA1 Antibody - Background**

This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen. Contributes to calcium sequestration involved in muscular excitation/contraction.

## **SERCA1 Antibody - References**

Zhang Y., et al. Genomics 30:415-424(1995).  
Ota T., et al. Nat. Genet. 36:40-45(2004).  
Daiho T., et al. J. Biol. Chem. 276:32771-32778(2001).  
Odermatt A., et al. Hum. Genet. 106:482-491(2000).