

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

SERCA1 Antibody - Product Information

Application	WB, IP, IHC-P, E
Primary Accession	O14983
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	110 KDa

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).