

ATP2A1 / SERCA1 Antibody (aa548-597)
Rabbit Polyclonal Antibody
Catalog # ALS16547**Specification**

ATP2A1 / SERCA1 Antibody (aa548-597) - Product Information

Application	IHC, WB
Primary Accession	O14983
Other Accession	487
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	110252

ATP2A1 / SERCA1 Antibody (aa548-597) - Additional Information**Gene ID** 487**Other Names**

ATP2A1, SERCA1, ATP2A, Calcium pump 1, SR Ca(2+)-ATPase 1

Target/Specificity

ATP2A1 Antibody detects endogenous levels of total ATP2A1 protein.

Reconstitution & StoragePBS (without Mg²⁺, Ca²⁺), pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol.
Store at -20°C for up to one year.**Precautions**

ATP2A1 / SERCA1 Antibody (aa548-597) is for research use only and not for use in diagnostic or therapeutic procedures.

ATP2A1 / SERCA1 Antibody (aa548-597) - 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).

Cellular Location

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

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Tissue Location

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

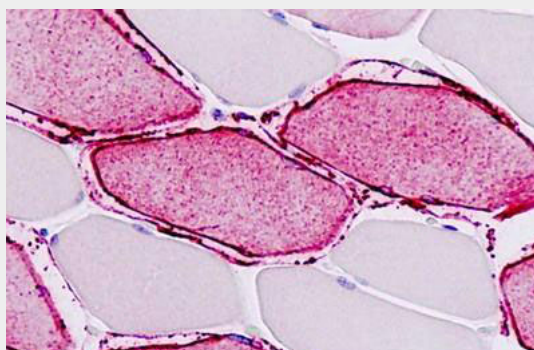
Volume

50 μ l

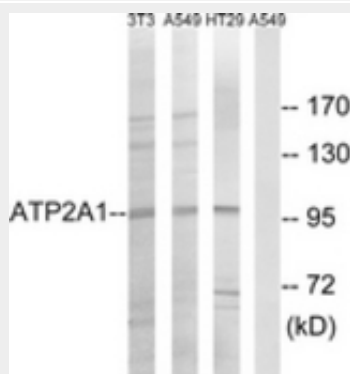
ATP2A1 / SERCA1 Antibody (aa548-597) - Protocols

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](#)

ATP2A1 / SERCA1 Antibody (aa548-597) - Images

Anti-ATP2A1 / SERCA1 antibody IHC staining of human skeletal muscle.



Western blot of extracts from HT-29/A549/NIH-3T3 cells, using ATP2A1 Antibody.

ATP2A1 / SERCA1 Antibody (aa548-597) - 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.

ATP2A1 / SERCA1 Antibody (aa548-597) - References

Zhang Y.,et al.Genomics 30:415-424(1995).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Martin J.,et al.Nature 432:988-994(2004).
Daiho T.,et al.J. Biol. Chem. 276:32771-32778(2001).
Odermatt A.,et al.Hum. Genet. 106:482-491(2000).