

**ATP2A1 Antibody (C-term) Blocking Peptide**

Synthetic peptide  
Catalog # BP4905b

**Specification**

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**ATP2A1 Antibody (C-term) Blocking Peptide - Product Information**

Primary Accession [O14983](#)

**ATP2A1 Antibody (C-term) Blocking Peptide - 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**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ATP2A1 Antibody (C-term) Blocking Peptide - 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:<a href="http://www.uniprot.org/citations/10914677" target="\_blank">10914677</a>).

**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.

### **ATP2A1 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **ATP2A1 Antibody (C-term) Blocking Peptide - Images**

### **ATP2A1 Antibody (C-term) Blocking Peptide - Background**

ATP2A1 encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of muscle cells. This enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen, and is involved in muscular excitation and contraction.

### **ATP2A1 Antibody (C-term) Blocking Peptide - References**

Salanova, M., et al. Histochem. Cell Biol. 132(4):383-394(2009)Thorleifsson, G., et al. Nat. Genet. 41(1):18-24(2009)Chami, M., et al. Mol. Cell 32(5):641-651(2008)