10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# SERCA1 ATPase Antibody

Rabbit mAb
Catalog # AP92494

## Product Information

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|---|---|
| **Application** | WB |
| **Primary Accession** | O14983 |
| **Reactivity** | Rat, Human, Mouse |
| **Clonality** | Monoclonal |
| **Other Names** | ATP2A; ATP2A1; SERCA1; |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Calculated MW** | 110252 |

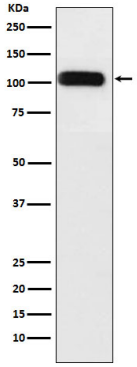
## Additional Information

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|---|---|
| **Dilution** | WB 1:500~1:2000 |
| **Purification** | Affinity-chromatography |
| **Immunogen** | A synthesized peptide derived from human SERCA1 ATPase |
| **Description** | 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. |
| **Storage Condition and Buffer** | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

## Protein Information

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|---|---|
| **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 {ECO:0000250\|UniProtKB:P04191}; Multi-pass membrane protein {ECO:0000250\|UniProtKB:P04191} |
| **Tissue Location** | Skeletal muscle, fast twitch muscle (type II) fibers. |

## Images




Western blot analysis of SERCA1 ATPase expression in Human fetal muscle lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.