

# Anti-SERCA1 ATPase Rabbit Monoclonal Antibody

Catalog # ABO15913

## Product Information

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|--------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                                                        |
| <b>Primary Accession</b> | <a href="#">O14983</a>                                                                                                    |
| <b>Host</b>              | Rabbit                                                                                                                    |
| <b>Isotype</b>           | IgG                                                                                                                       |
| <b>Reactivity</b>        | Rat, Human, Mouse                                                                                                         |
| <b>Clonality</b>         | Monoclonal                                                                                                                |
| <b>Format</b>            | Liquid                                                                                                                    |
| <b>Description</b>       | Anti-SERCA1 ATPase Rabbit Monoclonal Antibody . Tested in WB application.<br>This antibody reacts with Human, Mouse, Rat. |

## Additional Information

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| <b>Gene ID</b>             | 487                                                                                                                                                                                                                                                                                         |
| <b>Other Names</b>         | Sarcoplasmic/endoplasmic reticulum calcium ATPase 1, SERCA1, SR Ca(2+)-ATPase 1, 7.2.2.10, Calcium pump 1, Calcium-transporting ATPase sarcoplasmic reticulum type, fast twitch skeletal muscle isoform, Endoplasmic reticulum class 1/2 Ca(2+) ATPase, ATP2A1 ( <a href="#">HGNC:811</a> ) |
| <b>Calculated MW</b>       | 110252                                                                                                                                                                                                                                                                                      |
| <b>Application Details</b> | WB 1:500-1:2000                                                                                                                                                                                                                                                                             |
| <b>Source</b>              | Eukaryota                                                                                                                                                                                                                                                                                   |
| <b>Contents</b>            | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                                                                                                                                                         |
| <b>Clone Names</b>         | Clone: 24A90                                                                                                                                                                                                                                                                                |
| <b>Immunogen</b>           | A synthesized peptide derived from human SERCA1 ATPase                                                                                                                                                                                                                                      |
| <b>Purification</b>        | Affinity-chromatography                                                                                                                                                                                                                                                                     |
| <b>Storage</b>             | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.                                                                                                                                                  |

## Protein Information

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| <b>Name</b>     | ATP2A1 ( <a href="#">HGNC:811</a> )                                                                                                                                                                                                   |
| <b>Function</b> | 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

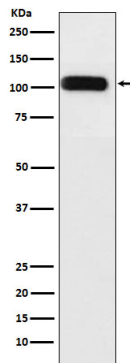
Endoplasmic reticulum membrane {ECO:0000250 | UniProtKB:P04191};  
Multi-pass membrane protein {ECO:0000250 | UniProtKB:P04191}.  
Sarcoplasmic reticulum membrane {ECO:0000250 | UniProtKB:P04191};  
Multi-pass membrane protein {ECO:0000250 | UniProtKB:P04191}

#### Tissue Location

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

## Images

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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'.