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# SERCA1 Polyclonal Antibody

Catalog # AP72436

## Product Information

| | |
|---|---|
| **Application** | WB, IHC-P |
| **Primary Accession** | O14983 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 110252 |

## Additional Information

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|---|---|
| **Gene ID** | 487 |
| **Other Names** | ATP2A1; 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+) AT |
| **Dilution** | WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications. IHC-P~~N/A |
| **Format** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| **Storage Conditions** | -20℃ |

## Protein Information

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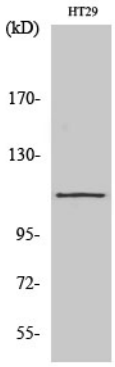
|---|---|
| **Name** | ATP2A1 ( HGNC:811) |
| **Function** | Key regulator of striated muscle performance by acting as the major Ca(2+) ATPase responsible for the reuptake of cytosolic Ca(2+) into the sarcoplasmic reticulum. Catalyzes the hydrolysis of ATP coupled with the translocation of calcium from 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. |

## Background

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. Contributes to calcium sequestration involved in muscular excitation/contraction.

## Images




Western Blot analysis of various cells using SERCA1 Polyclonal Antibody diluted at 1：2000