SERCA1/ATP2A1 Rabbit mAb

Catalog No.: A22614   **Recombinant**

Basic Information

Observed MW
Refer to figures

Calculated MW
110kDa

Category
Primary antibody

Applications
ELISA,WB,IHC-P

Cross-Reactivity
Human, Mouse

CloneNo number
ARC58464

Background

This gene 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. Mutations in this gene cause some autosomal recessive forms of Brody disease, characterized by increasing impairment of muscular relaxation during exercise. Alternative splicing results in three transcript variants encoding different isoforms.

Recommended Dilutions

WB	1:2000 - 1:6000
IHC-P	1:100 - 1:500

Immunogen Information

Gene ID
487

Swiss Prot
O14983

Immunogen
A synthetic peptide corresponding to a sequence within amino acids 900-1000 of human SERCA1/ATP2A1. (NP_775293.1).

Synonyms
ATP2A; SERCA1; SERCA1/ATP2A1

Contact

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Product Information

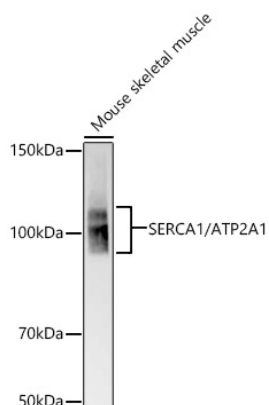| **Source**	**Isotype**	**Purification**
Rabbit	IgG	Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

Validation Data

Western blot analysis of lysates from Mouse skeletal muscle, using SERCA1/ATP2A1 Rabbit mAb (A22614) at 1:5000 dilution.
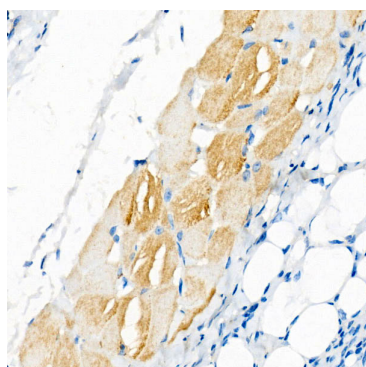Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.

Immunohistochemistry analysis of paraffin-embedded Human skeletal muscle using SERCA1/ATP2A1 Rabbit mAb (A22614) at dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.