

Rabbit anti-Human SERCA1/ATP2A1 Monoclonal Antibody | anti-ATP2A1 antibody

SERCA1/ATP2A1 Rabbit mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA282774	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

SERCA1/ATP2A1; Monoclonal Antibody; SERCA1/ATP2A1 Rabbit mAb; ATP2A; SERCA1; anti-ATP2A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	ALSVLVTIEM CNALNSLSEN QSLLRMPPWV NIWLLGSICL SMSLHFLILY VDPLPMIFKL RALDLTQWLM VLKISLPVIG LDEILKFVAR NYLEDPEDER RK
Applicable Applications for anti-ATP2A1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Cross Reactivity	Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 900-1001 of human SERCA1/ATP2A1 (O14983).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



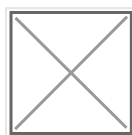
ICC (Immunocytochemistry)

Confocal imaging of paraffin-embedded Rat skeletal muscle tissue using SERCA1/ATP2A1 Rabbit mAb (AAA282774, dilution 1:100) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



ICC (Immunocytochemistry)

Confocal imaging of paraffin-embedded Mouse skeletal muscle tissue using SERCA1/ATP2A1 Rabbit mAb (AAA282774, dilution 1:100) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



WB (Western Blot)

Western blot analysis of lysates from Mouse skeletal muscle, using SERCA1/ATP2A1 Rabbit mAb (AAA282774) at 1:500 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.

ADDITIONAL INFORMATION

Related Product Information for anti-ATP2A1 antibody	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.
Product Categories/Family for anti-ATP2A1 antibody	Cancer; Signal Transduction; Endocrine Metabolism; Neuroscience; Calcium Signaling; Neurodegenerative Diseases; Cardiovascular; Heart; Cardiovascular diseases; Heart disease; Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	10835220
NCBI GeneID	487
NCBI Accession #	NP_004311.1
NCBI GenBank Nucleotide #	NM_004320.4
UniProt Accession #	O14983; O14984; A8K5J9
Molecular Weight	Calculated MW: 95kDa/110kDa Observed MW: 110kDa
UniProt Protein Name	Sarcoplasmic/endoplasmic reticulum calcium ATPase 1
UniProt Gene Name	ATP2A1
UniProt Synonym Gene Names	SERCA1
UniProt Entry Name	AT2A1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/serca1-atp2a1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/282774>