

Rabbit SERCA1 ATPase Polyclonal Antibody | anti-ATP2A1 antibody

Anti-SERCA1 ATPase antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA45076	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

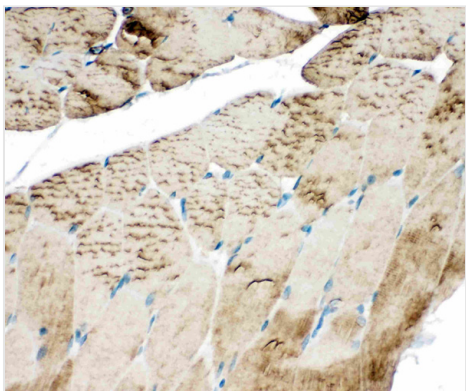
PRODUCT SYNONYMS

SERCA1 ATPase; Polyclonal Antibody; Anti-SERCA1 ATPase antibody; Sarcoplasmic/endoplasmic reticulum calcium ATPase 1(SERCA1/SR Ca(2+)-ATPase 1); ATPase; Ca++ transporting; cardiac muscle; fast twitch 1; fast twitch skeletal muscle isoform antibody; AT2A1_HUMAN antibody; ATP2A antibody; ATP2A1 antibody; ATPase Ca++ transporting cardiac muscle fast twitch 1 antibody; ATPase Ca++ transporting fast twitch 1 antibody; Ca(2+)-transporting fast twitch 1 antibody; Calcium pump 1 antibody; Calcium transporting ATPase sarcoplasmic reticulum type fast twitch skeletal muscle isoform antibody; Calcium-transporting ATPase sarcoplasmic reticulum type antibody; EC 3.6.3.8 antibody; Endoplasmic reticulum class 1/2 Ca(2+) ATPase antibody; Fast skeletal muscle SR calcium ATPase antibody; OTTHUMP00000162561 antibody; OTTHUMP00000162562 antibody; Sarcoendoplasmic reticulum calcium ATPase antibody; Sarcoplasmic reticulum Ca(2+)-ATPase 1 antibody; Sarcoplasmic/endoplasmic reticulum calcium ATPase 1 antibody; SERCA 1 antibody; SERCA1 antibody; SERCA1 truncated isoform; included antibody; SR Ca(2+) ATPase 1 antibody; SR Ca(2+)-ATPase 1 antibody; anti-ATP2A1 antibody

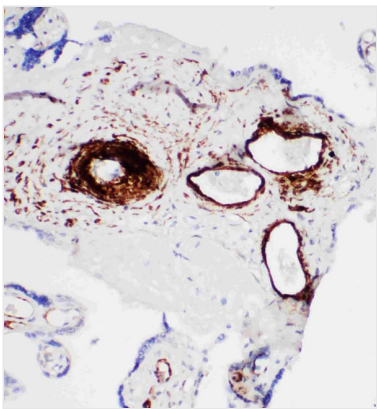
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	1001
Applicable Applications for anti-ATP2A1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human SERCA1 ATPase (665-680aa EQREACRRACCFARVE), identical to the related rat and mouse sequences.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

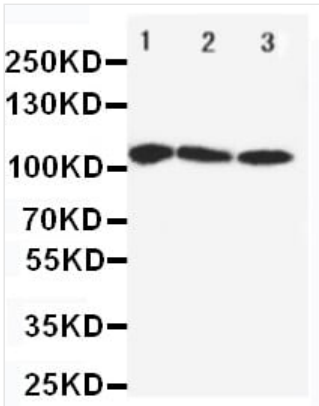
IMAGES



IHC (Immunohistochemisry)
Anti-SERCA1 ATPase antibody, AAA45076, IHC(P)IHC(P): Rat Skeletal Muscle Tissue



IHC (Immunohiostchemistry)
Anti-SERCA1 ATPase antibody, AAA45076, IHC(P)IHC(P): Human Placenta Tissue



WB (Western Blot)
Anti-SERCA1 ATPase antibody, AAA45076, Western blottingLane 1: Rat Skeletal Muscle Tissue LysateLane 2: PANC Cell LysateLane 3: U87 Cell Lysate

ADDITIONAL INFORMATION

Related Product Information for anti-ATP2A1 antibody

Description: Rabbit IgG polyclonal antibody for Sarcoplasmic/endoplasmic reticulum calcium ATPase 1(ATP2A1) detection. Tested with WB, IHC-P in Human, Mouse, Rat.

Background: SERCA1(SARCOPLASMIC RETICULUM Ca(2+)-ATPase 1), also called ATP2A1, is an enzyme that in humans is encoded by the ATP2A1 gene. This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of muscle cells. The SERCA1 gene is mapped on 16p11.2. 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. Zhang et al.(1995)determined that the human ATP2A1 gene is 26 kb long and contains 23 exons, 1 of which can be alternatively spliced.Overexpression of S1T, but not full-length SERCA1, induced ER stress in HeLa cells and amplified ER stress through the PERK(EIF2AK3)-EIF2A -ATF4 -CHOP(DDIT3) pathway. Mutations in this gene cause some autosomal recessive forms of Brody disease, characterized by increasing impairment of muscular relaxation during exercise.

NCBI AND UNIPROT INFORMATION

NCBI GI #	12643544
NCBI GeneID	487
UniProt Accession #	O14983; O14984; A8K5J9; B3KY17
Molecular Weight	95,199 Da
NCBI Official Full Name	Sarcoplasmic/endoplasmic reticulum calcium ATPase 1

NCBI Official Synonym Full Names	ATPase, Ca++ transporting, cardiac muscle, fast twitch 1
NCBI Official Symbol	ATP2A1
NCBI Official Synonym Symbols	ATP2A; SERCA1
NCBI Protein Information	sarcoplasmic/endoplasmic reticulum calcium ATPase 1; calcium pump 1; SR Ca(2+)-ATPase 1; endoplasmic reticulum class 1/2 Ca(2+) ATPase; calcium-transporting ATPase sarcoplasmic reticulum type, fast twitch skeletal muscle isoform
UniProt Protein Name	Sarcoplasmic/endoplasmic reticulum calcium ATPase 1
UniProt Gene Name	ATP2A1
UniProt Synonym Gene Names	SERCA1; SR Ca(2+)-ATPase 1
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/polyclonal/serca1-atpase-antibody-immunohistochemistry-western-blot-elisa/45076>