

ATP2A1 Polyclonal Antibody | anti-ATP2A1 antibody

Anti-ATP2A1 Antibody

CATALOG # AAA46267	REACTIVITY Mouse, Rat Predicted to work with: Human	APPLICATIONS Immunohistochemistry, Western Blot
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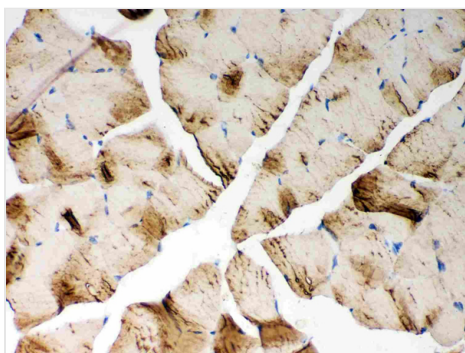
PRODUCT SYNONYMS

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

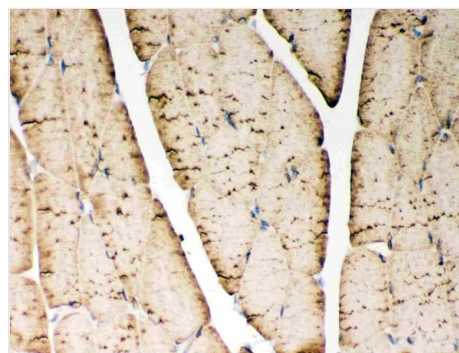
PRODUCT SPECIFICATIONS

Reactivity	Mouse, Rat Predicted to work with: Human
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	869
Applicable Applications for anti-ATP2A1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human ATP2A1 (1-32aa MEAAHAKTTEECLAYFGVSETTGLTPDQVKRN), different from the related mouse and rat sequences by three amino acids.
Ig Type	Rabbit IgG
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 aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

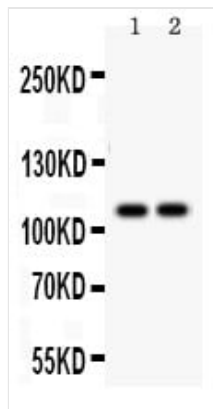
IMAGES



IHC (Immunohistochemistry)
Anti- SERCA1 ATPase antibody, IHC(P)IHC(P): Mouse Skeletal Muscle Tissue



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



WB (Western Blot)
 Anti- SERCA1 ATPase antibody, Western blottingAll lanes: Anti SERCA1 ATPase at 0.5ug/mlLane 1: Rat Skeletal Muscle Tissue Lysate at 50ugLane 2: Mouse Skeletal Muscle Tissue Lysate at 50ugPredicted bind size: 110KDObserved bind size: 110KD

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, 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 to 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. It has been determined that the human SERCA1 gene is 26 kb long and contains 23 exons, of which can be alternatively spliced. Mutations in this gene cause some autosomal recessive forms of Brody disease, characterized by increasing impairment of muscular relaxation during exercise.
References	1. Brandl, C. J., Green, N. M., Korczak, B., MacLennan, D. H. Two Ca(2+) ATPase genes: homologies and mechanistic implications of deduced amino acid sequences. Cell 44: 597-607, 1986. 2. Karpati, G., Charuk, J., Carpenter, S., Jablecki, C., Holland, P. Myopathy caused by a deficiency of Ca(2+)-adenosine triphosphatase in sarcoplasmic reticulum (Brody's disease). Ann. Neurol. 20: 38-49, 1986. 3. Zhang, Y., Fujii, J., Phillips, M. S., Chen, H.-S., Karpati, G., Yee, W.-C., Schrank, B., Cornblath, D. R., Boyland, K. B., MacLennan, D. H. Characterization of cDNA and genomic DNA encoding SERCA1, the Ca(2+)-ATPase of human fast-twitch skeletal muscle sarcoplasmic reticulum, and its elimination as a candidate gene for Brody disease. Genomics 30: 415-424, 1995.

NCBI AND UNIPROT INFORMATION

NCBI GI #	554506571
NCBI GeneID	487
NCBI Accession #	NP_001273004.1
NCBI GenBank Nucleotide #	NM_001286075.1
UniProt Accession #	O14983; O14984; A8K5J9; B3KY17
Molecular Weight	95,199 Da
NCBI Official Full Name	sarcoplasmic/endoplasmic reticulum calcium ATPase 1 isoform c
NCBI Official Synonym Full Names	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 1
NCBI Official Symbol	ATP2A1
NCBI Official Synonym Symbols	ATP2A; SERCA1
NCBI Protein Information	sarcoplasmic/endoplasmic reticulum calcium ATPase 1
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/atp2a1-antibody-immunohistochemistry-western-blot-elisa/46267>