

Rabbit ATP2A1 Polyclonal Antibody | anti-ATP2A1 antibody

ATP2A1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325099	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

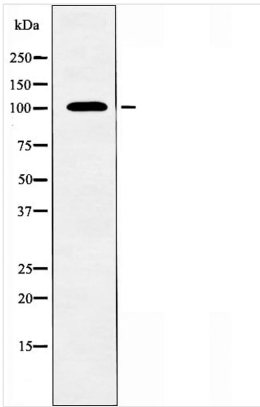
PRODUCT SYNONYMS

ATP2A1; Polyclonal Antibody; ATP2A1 Antibody; 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; EC 3.6.3.8; 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; anti-ATP2A1 antibody

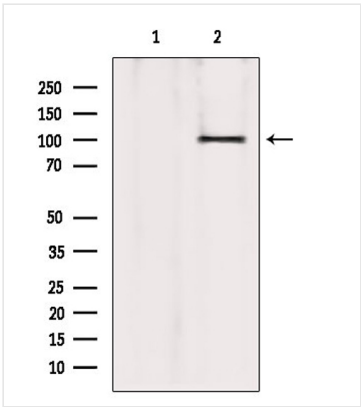
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ATP2A1 antibody detects endogenous levels of total ATP2A1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	869
Applicable Applications for anti-ATP2A1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Endoplasmic Reticulum Membrane. Sarcoplasmic Reticulum Membrane.
Tissue Specificity	Skeletal muscle, fast twitch muscle (type II) fibers.
Predicted Cross Reactivity	Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Bovine (100%), Horse (82%), Sheep (100%), Rabbit (100%), Dog (91%), Xenopus (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

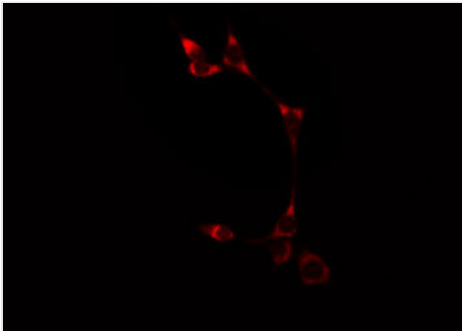
IMAGES



WB (Western Blot)
Western blot analysis of extracts from NIH/3T3 cells using ATP2A1 antibody.



WB (Western Blot)
Western blot analysis of extracts from 293, using ATP2A1 Antibody. Lane 1 was treated with the blocking peptide.



IF (Immunofluorescence)
AAA325099 staining HT29 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ATP2A1 antibody

Function: Key regulator of striated muscle performance by acting as the major Ca²⁺ ATPase responsible for the reuptake of cytosolic Ca²⁺ 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.

Subunit Structure: Interacts with sarcolipin (SLN) (By similarity). Interacts with phospholamban (PLN) (By similarity). Interacts with myoregulin (MRLN). Interacts with DWORF (By similarity).

Similarity: Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIA subfamily.

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	Observed: 100 kD Predicted: 111 kDa
NCBI Official Full Name	sarcoplasmic/endoplasmic reticulum calcium ATPase 1 isoform c

NCBI Official Synonym Full Names	ATPase sarcoplasmic/endoplasmic reticulum Ca ²⁺ 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

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-immunocytochemistry-immunofluorescence-western-blot-elisa/325099>