

Porcine Sarcoplasmic/endoplasmic reticulum calcium ATPase 1 (ATP2A1) ELISA Kit | ATP2A1 elisa kit

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CATALOG # AAA246263	REACTIVITY Porcine
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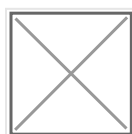
PRODUCT SYNONYMS

Sarcoplasmic/endoplasmic reticulum calcium ATPase 1 (ATP2A1); Porcine Sarcoplasmic/endoplasmic reticulum calcium ATPase 1 (ATP2A1) ELISA Kit; ATP2A1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Porcine
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Competitive (Quantitative)
Sensitivity	1.0 ng/mL.
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ATP2A1 elisa kit	Intended Uses: This ATP2A1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Porcine ATP2A1. This ELISA kit for research use only! Principle of the Assay: ATP2A1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-ATP2A1 antibody and an ATP2A1-HRP conjugate. The assay sample and buffer are incubated together with ATP2A1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the ATP2A1 concentration since ATP2A1 from samples and ATP2A1-HRP conjugate compete for the anti-ATP2A1 antibody binding site. Since the number of sites is limited, as more sites are occupied by ATP2A1 from the sample, fewer sites are left to bind ATP2A1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ATP2A1 concentration in each sample is interpolated from this standard curve.
Product Categories/Family for ATP2A1 elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	10835220
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NCBI GeneID	487
NCBI Accession #	NP_004311.1
NCBI GenBank Nucleotide #	NM_004320.4
Molecular Weight	95,199 Da
NCBI Official Full Name	sarcoplasmic/endoplasmic reticulum calcium ATPase 1 isoform a
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/porcine-elisa-kits/sarcoplasmic-endoplasmic-reticulum-calcium-atpase-1-atp2a1/246263>