

Rat Sarcoplasmic/endoplasmic reticulum calcium ATPase 2 (ATP2A2) ELISA Kit | ATP2A2 elisa kit

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CATALOG #
AAA246472

REACTIVITY
Rat

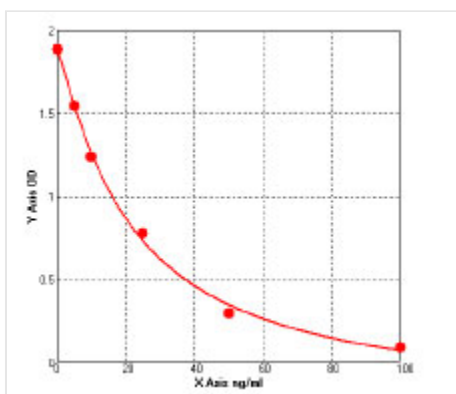
PRODUCT SYNONYMS

Sarcoplasmic/endoplasmic reticulum calcium ATPase 2 (ATP2A2); Rat Sarcoplasmic/endoplasmic reticulum calcium ATPase 2 (ATP2A2) ELISA Kit; ATP2A2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, Plasma, Cell Culture Supernatants, Body Fluid And Tissue Homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 ng/mL.
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ATP2A2 elisa kit

Intended Uses: This ATP2A2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of HumanATP2A2. This ELISA kit for research use only!

Principle of the Assay: ATP2A2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-ATP2A2 antibody and an ATP2A2-HRP conjugate. The assay sample and buffer are incubated together with ATP2A2-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 ATP2A2 concentration since ATP2A2 from samples and ATP2A2-HRP conjugate compete for the anti-ATP2A2 antibody binding site. Since the number of sites is limited, as more sites are occupied by ATP2A2 from the sample, fewer sites are left to bind ATP2A2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ATP2A2 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	24638454
NCBI GeneID	488
NCBI Accession #	NP_733765.1
NCBI GenBank Nucleotide #	NM_170665.3
Molecular Weight	109,734 Da
NCBI Official Full Name	sarcoplasmic/endoplasmic reticulum calcium ATPase 2 isoform b
NCBI Official Synonym Full Names	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2
NCBI Official Symbol	ATP2A2
NCBI Official Synonym Symbols	DD; DAR; ATP2B; SERCA2
NCBI Protein Information	sarcoplasmic/endoplasmic reticulum calcium ATPase 2; calcium pump 2; SR Ca(2+)-ATPase 2; cardiac Ca2+ ATPase; endoplasmic reticulum class 1/2 Ca(2+) ATPase; ATPase, Ca++ dependent, slow-twitch, cardiac muscle-2; calcium-transporting ATPase sarcoplasmic reticulum type, slow twitch skeletal muscle isoform
UniProt Protein Name	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2
UniProt Gene Name	ATP2A2
UniProt Synonym Gene Names	ATP2B; SERCA2; SR Ca(2+)-ATPase 2
UniProt Entry Name	AT2A2_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/sarcoplasmic-endoplasmic-reticulum-calcium-atpase-2-atp2a2/246472>