

Rat ATPase, Ca⁺⁺ Transporting, Cardiac Muscle, Slow Twitch 2 (ATP2A2) ELISA Kit | ATP2A2 elisa kit

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CATALOG #
AAA148667

REACTIVITY
Rat

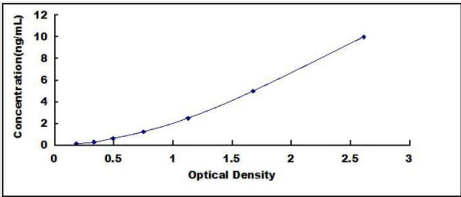
PRODUCT SYNONYMS

ATPase; Ca⁺⁺ Transporting; Cardiac Muscle; Slow Twitch 2 (ATP2A2); Rat ATPase; Slow Twitch 2 (ATP2A2) ELISA Kit; ATP2B; DAR; SERCA2; Calcium pump 2; Endoplasmic reticulum class 1/2 Ca(2+) ATPase; Calcium-transporting ATPase sarcoplasmic reticulum type; slow twitch skeletal muscle; ATP2A2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of ATPase, Ca ⁺⁺ Transporting, Cardiac Muscle, Slow Twitch 2 (ATP2A2). No significant cross-reactivity or interference between ATPase, Ca ⁺⁺ Transporting, Cardiac Muscle, Slow Twitch 2 (ATP2A2) and analogues was observed.
Sequence Length	1042
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.125ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level ATPase, Ca ⁺⁺ Transporting, Cardiac Muscle, Slow Twitch 2 (ATP2A2) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level ATPase, Ca ⁺⁺ Transporting, Cardiac Muscle, Slow Twitch 2 (ATP2A2) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ATP2A2 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to ATPase, Ca++ Transporting, Cardiac Muscle, Slow Twitch 2 (ATP2A2). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to ATPase, Ca++ Transporting, Cardiac Muscle, Slow Twitch 2 (ATP2A2). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain ATPase, Ca++ Transporting, Cardiac Muscle, Slow Twitch 2 (ATP2A2), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of ATPase, Ca++ Transporting, Cardiac Muscle, Slow Twitch 2 (ATP2A2) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for ATP2A2 elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	23272583
NCBI GeneID	488
Molecular Weight	109,734 Da
NCBI Official Full Name	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2
NCBI Official Synonym Full Names	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 2
NCBI Official Symbol	ATP2A2
NCBI Official Synonym Symbols	DD; DAR; ATP2B; SERCA2
NCBI Protein Information	sarcoplasmic/endoplasmic reticulum calcium ATPase 2
UniProt Protein Name	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2
UniProt Gene Name	ATP2A2
UniProt Synonym Gene Names	ATP2B; SERCA2; SR Ca(2+)-ATPase 2

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/rat-elisa-kits/atpase-ca-transporting-cardiac-muscle-slow-twitch-2-atp2a2/148667>