

Rat ATPase, H+/K+ Exchanging Alpha Polypeptide (ATP4a) ELISA Kit | ATP4a elisa kit

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CATALOG #
AAA68140

REACTIVITY
Rat

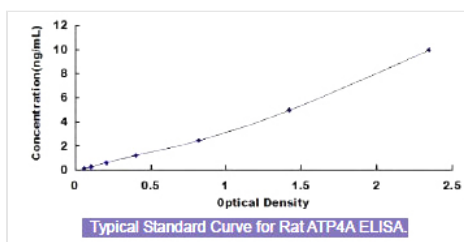
PRODUCT SYNONYMS

ATPase; H+/K+ Exchanging Alpha Polypeptide (ATP4a); Rat ATPase; H+/K+ Exchanging Alpha Polypeptide (ATP4a) ELISA Kit; ATP4a elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of ATP4A. No significant cross-reactivity or interference between ATP4A and analogues was observed.
Sequence Length	1,033
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Assay Type	Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	0.055ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ATP4A were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ATP4A were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ATP4a elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of ATP4A in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ATP4A. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to ATP4A. 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 ATP4A, 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 ATP4A in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	114343
NCBI GeneID	24216
UniProt Accession #	P09626; P70511; P97892; Q63253; Q6LD86
Molecular Weight	114,038 Da
NCBI Official Full Name	Potassium-transporting ATPase alpha chain 1
NCBI Official Synonym Full Names	ATPase H+/K+ transporting alpha subunit
NCBI Official Symbol	Atp4a
NCBI Official Synonym Symbols	Hka; Hkatpc
NCBI Protein Information	potassium-transporting ATPase alpha chain 1
UniProt Protein Name	Potassium-transporting ATPase alpha chain 1
UniProt Gene Name	Atp4a
UniProt Synonym Gene Names	Hka

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-h-k-exchanging-alpha-polypeptide-atp4a/68140>