

Rat ATPase, H⁺/K⁺ Exchanging Beta Polypeptide (ATP4b) ELISA Kit | ATP4b elisa kit

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CATALOG #
AAA68514

REACTIVITY
Rat

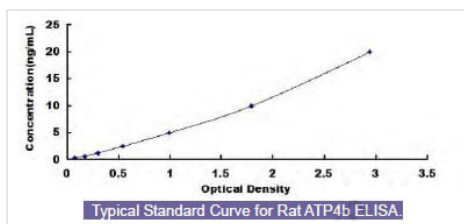
PRODUCT SYNONYMS

ATPase; H⁺/K⁺ Exchanging Beta Polypeptide (ATP4b); Rat ATPase; H⁺/K⁺ Exchanging Beta Polypeptide (ATP4b) ELISA Kit; Proton pump beta chain; Gastric H⁺/K⁺ ATPase subunit beta; ATP4b elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of ATP4b. No significant cross-reactivity or interference between ATP4b and analogues was observed.
Sequence Length	294
Samples	Tissue homogenates or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.312-20ng/mL
Sensitivity	<0.136ng/mL.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ATP4b 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 ATP4b were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ATP4b elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of ATP4b in rat tissue homogenates or other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ATP4b. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to ATP4b. 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 ATP4b, 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 ATP4b 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 #	31542161
NCBI GeneID	24217
NCBI Accession #	NP_036642.2
NCBI GenBank Nucleotide #	NM_012510.2
UniProt Accession #	P18598
Molecular Weight	33,689 Da
NCBI Official Full Name	potassium-transporting ATPase subunit beta
NCBI Official Synonym Full Names	ATPase H+/K+ transporting beta subunit
NCBI Official Symbol	Atp4b
NCBI Official Synonym Symbols	S76401S1
NCBI Protein Information	potassium-transporting ATPase subunit beta
UniProt Protein Name	Potassium-transporting ATPase subunit beta
UniProt Gene Name	Atp4b

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-beta-polypeptide-atp4b/68514>