

Rat ATPase, Na⁺/K⁺ Transporting Beta 4 Polypeptide (ATP1b4) ELISA Kit | ATP1b4 elisa kit

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CATALOG #
AAA187944

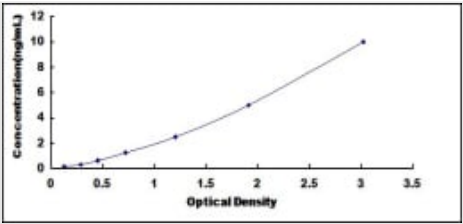
REACTIVITY
Rat

PRODUCT SYNONYMS

ATPase; Na⁺/K⁺ Transporting Beta 4 Polypeptide (ATP1b4); Rat ATPase; Na⁺/K⁺ Transporting Beta 4 Polypeptide (ATP1b4) ELISA Kit; X; K-ATPase subunit beta-m; X/potassium-transporting ATPase subunit beta-m; ATP1b4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of ATPase, Na ⁺ /K ⁺ Transporting Beta 4 Polypeptide (ATP1b4). No significant cross-reactivity or interference between ATPase, Na ⁺ /K ⁺ Transporting Beta 4 Polypeptide (ATP1b4) and analogues was observed.
Sequence Length	353
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates and Other Biological Fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.055ng/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, Na ⁺ /K ⁺ Transporting Beta 4 Polypeptide (ATP1b4) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level ATPase, Na ⁺ /K ⁺ Transporting Beta 4 Polypeptide (ATP1b4) 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.



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ATP1b4 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, Na+/K+ Transporting Beta 4 Polypeptide (ATP1b4). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to ATPase, Na+/K+ Transporting Beta 4 Polypeptide (ATP1b4). 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, Na+/K+ Transporting Beta 4 Polypeptide (ATP1b4), 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, Na+/K+ Transporting Beta 4 Polypeptide (ATP1b4) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119632291
NCBI GeneID	23439
UniProt Accession #	Q9UN42; Q17RR0; Q9UN41
Molecular Weight	41,109 Da
NCBI Official Full Name	ATPase, (Na+)/K+ transporting, beta 4 polypeptide, isoform CRA_b
NCBI Official Synonym Full Names	ATPase Na+/K+ transporting family member beta 4
NCBI Official Symbol	ATP1B4
NCBI Protein Information	protein ATP1B4
UniProt Protein Name	Protein ATP1B4
UniProt Gene Name	ATP1B4

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.