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## Datasheet for ABIN5518632 ATP4A ELISA Kit



#### Overview

Quantity:	96 tests
Target:	ATP4A
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	0.156 ng/mL - 10 ng/mL
Minimum Detection Limit:	0.156 ng/mL
Application:	ELISA

#### Product Details

Purpose:	The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of ATP4a in human tissue homogenates, cell lysates and other biological fluids.
Sample Type:	Cell Lysate, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of this index.
Cross-Reactivity (Details):	No significant cross-reactivity or interference between this index and analogues was observed. Note: Limited by current skills and knowledge, it is impossible for us to complete the cross- reactivity detection between this index and all the analogues, therefore, cross reaction may still exist.
Sensitivity:	0.055 ng/mL

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#### Product Details

Components:	Pre-coated, ready to use 96-well strip plate
	Standard (freeze dried)
	Standard Diluent
	Detection Reagent A
	Detection Reagent B
	Assay Diluent A
	Assay Diluent B
	• TMB
	Stop Solution
	• Wash Buffer (30X)
	Plate sealer for 96 wells
	Instruction manual
Material not included:	1. Microplate reader with $450 \pm 10$ nm filter.
	2. Precision single or multi-channel pipettes and disposable tips.
	3. Eppendorf Tubes for diluting samples.
	4. Deionized or distilled water.
	5. Absorbent paper for blotting the microtiter plate.
	6. Container for Wash Solution.

### Target Details

Target:	ATP4A
Alternative Name:	ATPase, H+/K+ Exchanging Alpha Polypeptide (ATP4a) (ATP4A Products)
Background:	Alternative name: Gastric H,K-ATPase Alpha Subunit, H(+)-K(+)-ATPase Alpha Subunit, Proton Pump, Potassium-transporting ATPase alpha chain 1
Gene ID:	495
UniProt:	P20648
Pathways:	Proton Transport, Ribonucleoside Biosynthetic Process

#### Application Details

Sample Volume:	100 µL
Assay Time:	1 - 4.5 h
Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards
	2. Add 100 $\mu$ L standard or sample to each well. Incubate 2 hours at 37°C

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#### Application Details

	3. Aspirate and add 100µL prepared Detection Reagent A. Incubate 1 hour at 37°C
	4. Aspirate and wash 3 times
	5. Add 100µL prepared Detection Reagent B. Incubate 1 hour at 37°C
	6. Aspirate and wash 5 times
	7. Add 90µL Substrate Solution. Incubate 15-25 minutes at 37°C
	8. Add 50µL Stop Solution. Read at 450nm immediately.
Assay Procedure:	The microtiter plate provided in this kit has been pre-coated with an antibody specific to the
	index. Standards or samples are then added to the appropriate microtiter plate wells with a
	biotin-conjugated antibody preparation specific to the index. 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 the index, 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 $\pm$ 10nm. The concentration of the index in
	the samples is then determined by comparing the O.D. of the samples to the standard curve.
Assay Precision:	<ul> <li>Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level the index were tested 20 times on one plate, respectively.</li> </ul>
	<ul> <li>Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level</li> </ul>
	the index were tested on 3 different plates, 8 replicates in each plate.
	• CV(%) = SD/meanX100
	Intra-assay: CV&It10%
	Inter-assay: CV&It12%
Restrictions:	For Research Use only
Handling	
Precaution of Use:	The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and
	clothing protection when using this material.
Handling Advice:	The stability of ELISA 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 conditions. Note: To minimize
	unnecessary influences on the performance, operation procedures and lab conditions,
	especially room temperature, air humidity and incubator temperatures should be strictly
	regulated. It is also strongly suggested that the whole assay is performed by the same
	experimenter from the beginning to the end.
Storage:	4 °C,-20 °C

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Storage Comment:	The Assay Plate, Standard, Detection Reagent A and Detection Reagent B should be stored at -
	20°C upon being received. After receiving the kit , Substrate should be always stored at
	4°C.Other reagents are kept according to the labels on vials. But for long term storage, please
	keep the whole kit at -20°C. The unused strips should be kept in a sealed bag with the desiccant
	provided to minimize exposure to damp air. The test kit may be used throughout the expiration
	date of the kit (six months from the date of manufacture). Opened test kits will remain stable
	until the expiring date shown, provided it is stored as prescribed above.

Expiry Date:

12 months