

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

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CATALOG #  
**AAA137286**

REACTIVITY  
**Mouse**

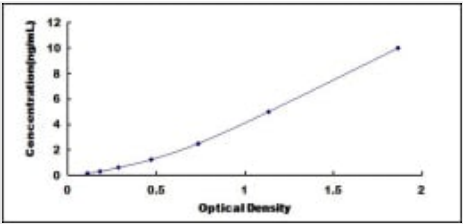
### PRODUCT SYNONYMS

ATPase; H+/K+ Exchanging Alpha Polypeptide (ATP4a); Mouse ATPase; H+/K+ Exchanging Alpha Polypeptide (ATP4a) ELISA Kit; Gastric H; K-ATPase Alpha Subunit; H(+)-K(+)-ATPase Alpha Subunit; Proton Pump; Potassium-transporting ATPase alpha chain 1; ATP4a elisa kit

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                        | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity                                       | This assay has high sensitivity and excellent specificity for detection of ATPase, H+/K+ Exchanging Alpha Polypeptide (ATP4a).<br>No significant cross-reactivity or interference between ATPase, H+/K+ Exchanging Alpha Polypeptide (ATP4a) and analogues was observed.                                                                                                                                                                                                                   |
| Sequence Length                                   | 781                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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, H+/K+ Exchanging Alpha Polypeptide (ATP4a) were tested 20 times on one plate, respectively.                                                                                                                                                                                                                                                                                                                                              |
| Inter-assay Precision (Precision between assays)  | 3 samples with low, middle and high level ATPase, H+/K+ Exchanging Alpha Polypeptide (ATP4a) 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.<br>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 ATP4a 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, H+/K+ Exchanging Alpha Polypeptide (ATP4a). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to ATPase, H+/K+ Exchanging Alpha Polypeptide (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 ATPase, H+/K+ Exchanging Alpha Polypeptide (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 ATPase, H+/K+ Exchanging Alpha Polypeptide (ATP4a) in the samples is then determined by comparing the O.D. of the samples to the standard curve. |
| Product Categories/Family for ATP4a elisa kit   | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

NCBI AND UNIPROT INFORMATION

|                         |                |
|-------------------------|----------------|
| NCBI GI #               | 350999967      |
| Molecular Weight        | 85,670 Da      |
| NCBI Official Full Name | ATP4A, partial |
| UniProt Protein Name    | ATP4A          |
| UniProt Entry Name      | G4Y361_9TELE   |

**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/mouse-elisa-kits/atpase-h-k-exchanging-alpha-polypeptide-atp4a/137286>