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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 ± 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 μ 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: | 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. |
| | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level |
| | 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