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Datasheet for ABIN1569943 GAD ELISA Kit

Image



Overview

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| Quantity: | 96 tests |
|--------------------------|------------------------|
| Target: | GAD (GAD1) |
| Reactivity: | Mouse |
| Method Type: | Sandwich ELISA |
| Detection Range: | 0.781 ng/mL - 50 ng/mL |
| Minimum Detection Limit: | 0.781 ng/mL |
| Application: | ELISA |

Product Details

| Purpose: | The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of GAD1 in mouse tissue homogenates and other biological fluids. |
|-----------------------------|---|
| Sample Type: | 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: | 0.31 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: | Microplate reader with 450 ± 10nm filter. Precision single or multi-channel pipettes and disposable tips. Eppendorf Tubes for diluting samples. Deionized or distilled water. Absorbent paper for blotting the microtiter plate. Container for Wash Solution. |

Target Details

| Target: | GAD (GAD1) |
|-------------------|---|
| Alternative Name: | Glutamate Decarboxylase 1, Brain (GAD1) (GAD1 Products) |
| Background: | Alternative name: GAD67, SCP, 67 kDa glutamic acid decarboxylase, Glutamate decarboxylase 67 kDa isoform |
| Gene ID: | 14415 |
| UniProt: | P48318 |

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 |
| | 3. Aspirate and add 100 μ L prepared Detection Reagent A. Incubate 1 hour at 37°C |
| | 4. Aspirate and wash 3 times |

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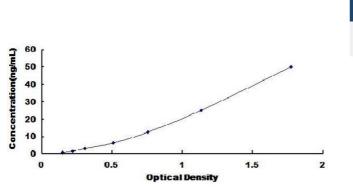
| | 5. Add 100µL prepared Detection Reagent B. Incubate 1 hour at 37°C |
|--------------------|---|
| | 6. Aspirate and wash 5 times |
| | 7. Add 90µL Substrate Solution. Incubate 15-25 minutes at 37°C |
| | 8. Add 50µL Stop Solution. Read at 450nm immediately. |
| Assay Procedure: | The microtiter plate 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&lt10%Inter-assay: CV&lt12% |
| 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 |
| 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 |
| | |

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Expiry Date:

12 months

Images



ELISA

Image 1. Typical Standard Curve

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