# Mouse glutamate decarboxylase 1 (brain, 67kDa) ELISA Kit | GAD1 elisa kit

Mouse Glutamate decarboxylase 1, GAD1 ELISA Kit

| CATALOG # | REACTIVITY |
|---|---|
| **AAA18214** | **Mouse** |

## PRODUCT SYNONYMS

glutamate decarboxylase 1 (brain; 67kDa); Mouse Glutamate decarboxylase 1; GAD1 ELISA Kit; Mouse Glutamate decarboxylase 1 (GAD1) ELISA kit; FLJ45882; GAD; SCP; glutamate decarboxylase 1; GAD1 elisa kit

## PRODUCT SPECIFICATIONS

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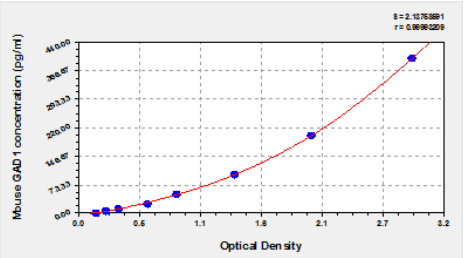
| **Reactivity** | Mouse |
| **Specificity** | This assay has high sensitivity and excellent specificity for detection of mouse GAD1. No significant cross-reactivity or interference between mouse GAD1 and analogues was observed. |
| **Sequence Length** | 593 |
| **Assay Type** | Quantitative Sandwich |
| **Samples** | Serum, plasma, tissue homogenates, cell lysates |
| **Detection Range** | 6.25 pg/ml-400 pg/ml |
| **Sensitivity** | < 1.56 pg/ml |
| **Intra-assay Precision** | Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess. |
| **Inter-assay Precision** | Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess. |
| **Preparation and Storage** | Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions. |

## IMAGES




**Standard Curve (Sample)**

## ADDITIONAL INFORMATION

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| **Related Product Information for GAD1 elisa kit** | Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for GAD1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any GAD1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for GAD1 is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of GAD1 bound in the initial step. The color development is stopped and the intensity of the color is measured. |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 31982847 |
| **NCBI GeneID** | 14415 |
| **NCBI Accession #** | NP_032103.2 |
| **NCBI GenBank Nucleotide #** | NM_008077.4 |
| **UniProt Accession #** | P48318; O08685 |
| **Molecular Weight** | 66,648 Da |
| **NCBI Official Full Name** | glutamate decarboxylase 1 |
| **NCBI Official Synonym Full Names** | glutamate decarboxylase 1 |
| **NCBI Official Symbol** | Gad1 |
| **NCBI Official Synonym Symbols** | EP10; GAD25; GAD44; GAD67; Gad-1 |
| **NCBI Protein Information** | glutamate decarboxylase 1; GAD-67; glutamic acid decarboxylase 1; 67 kDa glutamic acid decarboxylase; glutamate decarboxylase 67 kDa isoform; GLUTAMATE DECARBOXYLASE, 67 KD ISOFORM (GAD-67) (67 KD GLUTAMIC ACID DECARBOXYLASE) |
| **UniProt Protein Name** | Glutamate decarboxylase 1 |
| **UniProt Gene Name** | **Gad1** |
| **UniProt Synonym Gene Names** | Gad67; GAD-67 |
| **UniProt Entry Name** | DCE1_MOUSE |

**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://www.aaabiotech.com/gad1-mouse-elisa-kits/glutamate-decarboxylase-1-brain-67kda/18214