

Mouse Glutamate Decarboxylase 1, Brain (GAD1) ELISA Kit | GAD1 elisa kit

Mouse Glutamate Decarboxylase 1, Brain (GAD1) Mini Samples ELISA Kit

CATALOG # AAA188749	REACTIVITY Mouse	APPLICATIONS ELISA
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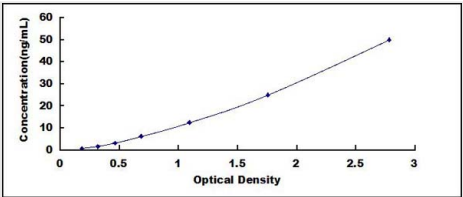
PRODUCT SYNONYMS

Glutamate Decarboxylase 1; Brain (GAD1); Mouse Glutamate Decarboxylase 1; Brain (GAD1) Mini Samples ELISA Kit; Brain; GAD67; SCP; 67 kDa glutamic acid decarboxylase; Glutamate decarboxylase 67 kDa isoform; GAD1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Mini Samples Glutamate Decarboxylase 1, Brain (GAD1). No significant cross-reactivity or interference between Mini Samples Glutamate Decarboxylase 1, Brain (GAD1) and analogues was observed.
Sequence Length	593
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	0.78-50ng/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 0.29ng/mL
Applicable Applications for GAD1 elisa kit	ELISA
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Mini Samples Glutamate Decarboxylase 1, Brain (GAD1) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Mini Samples Glutamate Decarboxylase 1, Brain (GAD1) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%
Test Principle	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 Mini Samples Glutamate Decarboxylase 1, Brain (GAD1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Mini Samples Glutamate Decarboxylase 1, Brain (GAD1). 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 Mini Samples Glutamate Decarboxylase 1, Brain (GAD1), 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 Mini Samples Glutamate Decarboxylase 1, Brain (GAD1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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. 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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	31982847
NCBI GeneID	14415
NCBI Accession #	NP_032103.2
NCBI GenBank Nucleotide #	NP_032103.2
UniProt Accession #	P48318
NCBI Official Full Name	glutamate decarboxylase 1 isoform GAD67
NCBI Official Synonym Full Names	glutamate decarboxylase 1
NCBI Official Symbol	Gad1
NCBI Official Synonym Symbols	EP10; Gad-1
NCBI Protein Information	glutamate decarboxylase 1
UniProt Protein Name	Glutamate decarboxylase 1
UniProt Gene Name	Gad1
UniProt Synonym Gene Names	Gad67; GAD-67

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/glutamate-decarboxylase-1-brain-gad1/188749>