

Mouse Glutamate decarboxylase 2 (GAD2) ELISA Kit | GAD2 elisa kit

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CATALOG #
AAA247006

REACTIVITY
Mouse

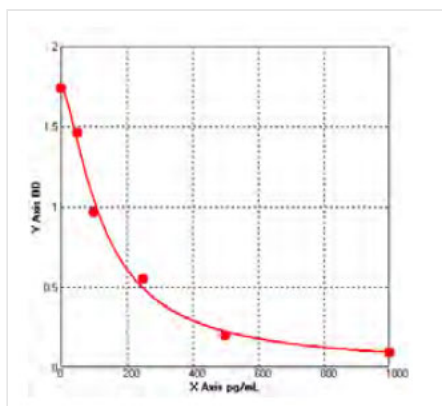
PRODUCT SYNONYMS

Glutamate decarboxylase 2 (GAD2); Mouse Glutamate decarboxylase 2 (GAD2) ELISA Kit; GAD2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of GAD2. No significant cross-reactivity or interference between GAD2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between GAD2 and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	1.0 pg/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GAD2 elisa kit	Principle of the Assay: GAD2 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-GAD2 antibody and an GAD2-HRP conjugate. The assay sample and buffer are incubated together with GAD2-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the GAD2 concentration since GAD2 from samples and GAD2-HRP conjugate compete for the anti-GAD2 antibody binding site. Since the number of sites is limited, as more sites are occupied by GAD2 from the sample, fewer sites are left to bind GAD2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The GAD2 concentration in each sample is interpolated from this standard curve. Intended Uses: This GAD2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse GAD2. This ELISA kit for research use only, not for therapeutic or test applications!
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4503875
NCBI GeneID	2572
NCBI Accession #	NP_000809.1
NCBI GenBank Nucleotide #	NM_000818.2
Molecular Weight	65,411 Da
NCBI Official Full Name	glutamate decarboxylase 2
NCBI Official Synonym Full Names	glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa)
NCBI Official Symbol	GAD2
NCBI Official Synonym Symbols	GAD65
NCBI Protein Information	glutamate decarboxylase 2; GAD-65; 65 kDa glutamic acid decarboxylase; Glutamate decarboxylase-2 (pancreas); glutamate decarboxylase 65 kDa isoform
UniProt Protein Name	Glutamate decarboxylase 2
UniProt Gene Name	GAD2
UniProt Synonym Gene Names	GAD65; GAD-65
UniProt Entry Name	DCE2_HUMAN

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.