

Rat Glutamate Decarboxylase 2, Acid (GAD2) ELISA Kit | GAD2 elisa kit

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CATALOG #
AAA63380

REACTIVITY
Rat

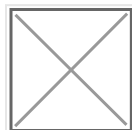
PRODUCT SYNONYMS

Glutamate Decarboxylase 2; Acid (GAD2); Rat Glutamate Decarboxylase 2; Acid (GAD2) ELISA Kit; GAD65; Pancreatic Islets And Brain; 65kDa; 65 kDa glutamic acid decarboxylase; Glutamate decarboxylase 65 kDa isoform; GAD2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
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.
Sequence Length	585
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Assay Type	Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	0.05ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level GAD2 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level GAD2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GAD2 elisa kit

Intended Uses: This kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of GAD2 in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to GAD2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to GAD2. 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 GAD2, 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 GAD2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6978871
NCBI GeneID	24380
NCBI Accession #	NP_036695.1
NCBI GenBank Nucleotide #	NM_012563.1
UniProt Accession #	Q05683
Molecular Weight	65,402 Da
NCBI Official Full Name	glutamate decarboxylase 2
NCBI Official Synonym Full Names	glutamate decarboxylase 2
NCBI Official Symbol	Gad2
NCBI Official Synonym Symbols	gad65
NCBI Protein Information	glutamate decarboxylase 2
UniProt Protein Name	Glutamate decarboxylase 2
UniProt Gene Name	Gad2
UniProt Synonym Gene Names	Gad65; GAD-65

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/rat-elisa-kits/glutamate-decarboxylase-2-acid-gad2/63380>