

Human Glutamate decarboxylase 1 (GAD1) ELISA Kit | GAD1 elisa kit

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CATALOG #
AAA246895

REACTIVITY
Human

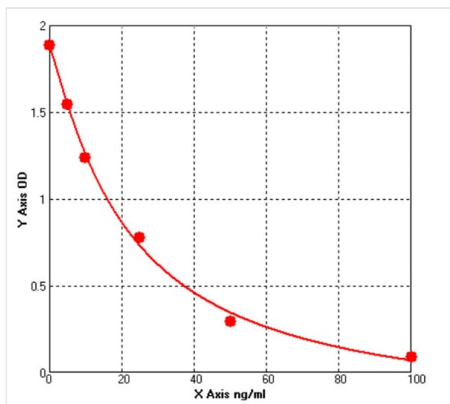
PRODUCT SYNONYMS

Glutamate decarboxylase 1 (GAD1); Human Glutamate decarboxylase 1 (GAD1) ELISA Kit; GAD1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of GAD1. No significant cross-reactivity or interference between GAD1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between GAD1 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 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GAD1 elisa kit	Principle of the Assay: GAD1 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-GAD1 antibody and an GAD1-HRP conjugate. The assay sample and buffer are incubated together with GAD1-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 GAD1 concentration since GAD1 from samples and GAD1-HRP conjugate compete for the anti-GAD1 antibody binding site. Since the number of sites is limited, as more sites are occupied by GAD1 from the sample, fewer sites are left to bind GAD1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The GAD1 concentration in each sample is interpolated from this standard curve. Intended Uses: This GAD1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human GAD1. This ELISA kit for research use only, not for therapeutic or test applications!
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NCBI AND UNIPROT INFORMATION

NCBI GI #	15237949
NCBI GeneID	831599
NCBI Accession #	NP_197235.1
NCBI GenBank Nucleotide #	NM_121739.3
Molecular Weight	57,066 Da
NCBI Official Full Name	glutamate decarboxylase 1
NCBI Official Symbol	GAD
NCBI Official Synonym Symbols	GAD1; glutamate decarboxylase; GLUTAMATE DECARBOXYLASE; GLUTAMATE DECARBOXYLASE 1; MKP11.30; MKP11_30
NCBI Protein Information	glutamate decarboxylase 1
UniProt Protein Name	Glutamate decarboxylase 1
UniProt Gene Name	GAD1
UniProt Synonym Gene Names	GAD; GDH1; At5g17330; MKP11.30; MKP11_18; GAD 1
UniProt Entry Name	DCE1_ARATH

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/glutamate-decarboxylase-1-gad1/246895>