

Human Gamma-aminobutyric acid ELISA Kit | GABA elisa kit

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CATALOG #
AAA99239

REACTIVITY
Human

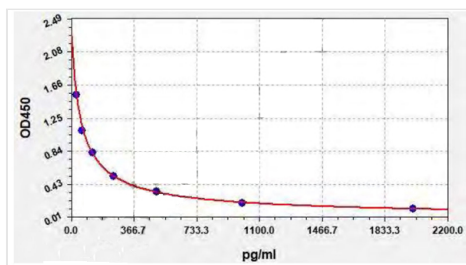
PRODUCT SYNONYMS

Gamma-aminobutyric acid; Human Gamma-aminobutyric acid ELISA Kit; GABA; GABA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize GABA, no obvious cross reaction with other analogues
Sequence Length	122
Assay Type	Competitive
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GABA elisa kit	Background: GABA (gamma-aminobutyric acid) is the primary inhibitory neurotransmitter in the central nervous system and interacts with three different receptors: GABA(A), GABA(B) and GABA(C) receptor. The ionotropic GABA(A) and GABA(C) receptors are ligand-gated ion channels that produce fast inhibitory synaptic transmission. In contrast, the metabotropic GABA(B) receptor is coupled to G proteins that modulate slow inhibitory synaptic transmission. Principle of the Assay: This kit was based on Competitive-ELISA detection method. The microtiter plate provided in this kit has been pre-coated with GABA. During the reaction, GABA in the sample or standard competes with a fixed amount of GABA on the solid phase supporter for sites on the Biotinylated Detection Antibody specific to GABA. Excess conjugate and unbound sample or standard are washed from the plate, and HRP-Streptavidin (SABC) is added to each microplate well and incubated. Then TMB substrate solution is added to each well. The enzymesubstrate reaction is terminated by the addition of a acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm. The concentration of GABA in the samples is then determined by comparing the OD of the samples to the standard curve. The concentration of the target substance was inversely proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	300078440
Molecular Weight	13,901 Da
NCBI Official Full Name	gamma-aminobutyric acid, partial
UniProt Protein Name	Gamma-aminobutyric acid
UniProt Gene Name	GABA
UniProt Entry Name	A0A0H3TY14_DIRIM

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/gaba-human-elisa-kits/gamma-aminobutyric-acid/99239>