

Human GRIN2D (Glutamate receptor ionotropic, NMDA 2D) ELISA Kit | GRIN2D elisa kit

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CATALOG #
AAA250246

REACTIVITY
Human

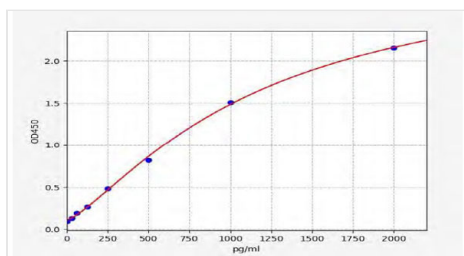
PRODUCT SYNONYMS

GRIN2D (Glutamate receptor ionotropic; NMDA 2D); Human GRIN2D (Glutamate receptor ionotropic; NMDA 2D) ELISA Kit; Glutamate receptor ionotropic; NMDA 2D; GluN2D; EB11; Glutamate [NMDA] receptor subunit epsilon-4; N-methyl D-aspartate receptor subtype 2D; NMDAR2D; NR2D; GRIN2D; GRIN2D elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize GRIN2D, no obvious cross reaction with other analogues
Assay Type	Sandwich
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 GRIN2D elisa kit	Background: N-methyl-D-aspartate (NMDA) receptors are a class of ionotropic glutamate receptors. NMDA channel has been shown to be involved in long-term potentiation, an activity-dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. Diseases associated with GRIN2D include Developmental And Epileptic Encephalopathy 46 and Non-Specific Early-Onset Epileptic Encephalopathy. Among its related pathways are Unblocking of NMDA receptors, glutamate binding and activation and RAF/MAP kinase cascade. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti GRIN2D antibody was pre-coated onto the 96-well plate. The biotin conjugated anti GRIN2D antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with GRIN2D conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of GRIN2D in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	153946391
NCBI GeneID	2906
NCBI Accession #	NP_000827.2
NCBI GenBank Nucleotide #	NM_000836.2
UniProt Accession #	O15399
Molecular Weight	143,752 Da
NCBI Official Full Name	glutamate receptor ionotropic, NMDA 2D
NCBI Official Synonym Full Names	glutamate receptor, ionotropic, N-methyl D-aspartate 2D
NCBI Official Symbol	GRIN2D
NCBI Official Synonym Symbols	EB11; NR2D; GluN2D; NMDAR2D
NCBI Protein Information	glutamate receptor ionotropic, NMDA 2D; estrogen receptor binding CpG island; N-methyl D-aspartate receptor subtype 2D; N-methyl-d-aspartate receptor subunit 2D; glutamate [NMDA] receptor subunit epsilon-4
UniProt Protein Name	Glutamate receptor ionotropic, NMDA 2D
UniProt Gene Name	GRIN2D
UniProt Synonym Gene Names	GluN2D; NMDAR2D; GluN2D; NMDAR2D; NR2D
UniProt Entry Name	NMDE4_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.