

Rat Glutamate Receptor, Ionotropic, N-Methyl-D-Aspartate 2A (GRIN2A) ELISA Kit | GRIN2A elisa kit

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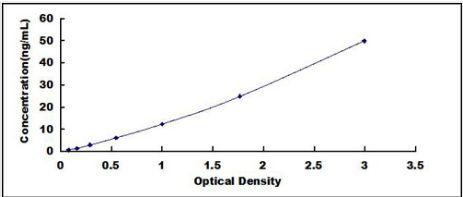
CATALOG # AAA186696	REACTIVITY Rat
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PRODUCT SYNONYMS

Glutamate Receptor; Ionotropic; N-Methyl-D-Aspartate 2A (GRIN2A); Rat Glutamate Receptor; N-Methyl-D-Aspartate 2A (GRIN2A) ELISA Kit; NMDAR2A; NR2A; Glutamate [NMDA] receptor subunit epsilon-1; N-methyl D-aspartate receptor subtype 2A; GRIN2A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Glutamate Receptor, Ionotropic, N-Methyl-D-Aspartate 2A (GRIN2A). No significant cross-reactivity or interference between Glutamate Receptor, Ionotropic, N-Methyl-D-Aspartate 2A (GRIN2A) and analogues was observed.
Sequence Length	1464
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cell Lysates and Other Biological Fluids
Detection Range	0.78-50ng/mL
Sensitivity	< 0.27ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Glutamate Receptor, Ionotropic, N-Methyl-D-Aspartate 2A (GRIN2A) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Glutamate Receptor, Ionotropic, N-Methyl-D-Aspartate 2A (GRIN2A) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GRIN2A elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Glutamate Receptor, Ionotropic, N-Methyl-D-Aspartate 2A (GRIN2A). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Glutamate Receptor, Ionotropic, N-Methyl-D-Aspartate 2A (GRIN2A). 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 Glutamate Receptor, Ionotropic, N-Methyl-D-Aspartate 2A (GRIN2A), 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 Glutamate Receptor, Ionotropic, N-Methyl-D-Aspartate 2A (GRIN2A) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	197313636
NCBI GeneID	2903
NCBI Accession #	NP_001127879.1
NCBI GenBank Nucleotide #	NM_001134407.2
UniProt Accession #	Q12879; O00669; Q17RZ6
Molecular Weight	144,431 Da
NCBI Official Full Name	glutamate receptor ionotropic, NMDA 2A isoform 1
NCBI Official Synonym Full Names	glutamate ionotropic receptor NMDA type subunit 2A
NCBI Official Symbol	GRIN2A
NCBI Official Synonym Symbols	LKS; EPND; FESD; NR2A; GluN2A; NMDAR2A
NCBI Protein Information	glutamate receptor ionotropic, NMDA 2A
UniProt Protein Name	Glutamate receptor ionotropic, NMDA 2A
UniProt Gene Name	GRIN2A
UniProt Synonym Gene Names	NMDAR2A; NR2A; hNR2A

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.