

Rat Metabotropic glutamate receptor 2 (GRM2) ELISA Kit | GRM2 elisa kit

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CATALOG #
AAA245993

REACTIVITY
Rat

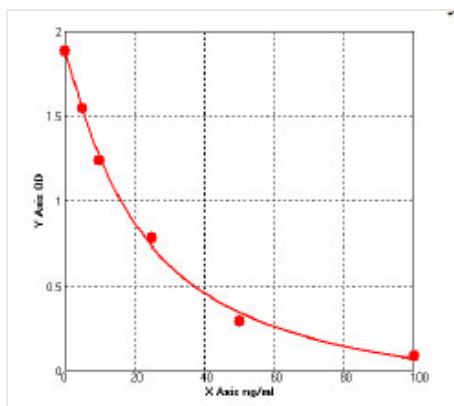
PRODUCT SYNONYMS

Metabotropic glutamate receptor 2 (GRM2); Rat Metabotropic glutamate receptor 2 (GRM2) ELISA Kit; GRM2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of GRM2. No significant cross-reactivity or interference between GRM2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between GRM2 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 GRM2 elisa kit	Principle of the Assay: GRM2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-GRM2 antibody and an GRM2-HRP conjugate. The assay sample and buffer are incubated together with GRM2-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 GRM2 concentration since GRM2 from samples and GRM2-HRP conjugate compete for the anti-GRM2 antibody binding site. Since the number of sites is limited, as more sites are occupied by GRM2 from the sample, fewer sites are left to bind GRM2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The GRM2 concentration in each sample is interpolated from this standard curve. Intended Uses: This GRM2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat GRM2. This ELISA kit for research use only, not for therapeutic or test applications!
Product Categories/Family for GRM2 elisa kit	Neurobiology

NCBI AND UNIPROT INFORMATION

NCBI GI #	66529100
NCBI GeneID	2912
NCBI Accession #	NP_000830.2
NCBI GenBank Nucleotide #	NM_000839.3
Molecular Weight	95,568 Da
NCBI Official Full Name	metabotropic glutamate receptor 2 isoform a
NCBI Official Synonym Full Names	glutamate receptor, metabotropic 2
NCBI Official Symbol	GRM2
NCBI Official Synonym Symbols	GLUR2; mGlu2; GPRC1B; MGLUR2
NCBI Protein Information	metabotropic glutamate receptor 2; glutamate receptor homolog; glutamate metabotropic receptor 2
UniProt Protein Name	Metabotropic glutamate receptor 2
UniProt Gene Name	GRM2
UniProt Synonym Gene Names	GPRC1B; MGLUR2; mGluR2
UniProt Entry Name	GRM2_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.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/metabotropic-glutamate-receptor-2-grm2/245993>