

Rat Mu-type opioid receptor ELISA Kit | Oprm1 elisa kit

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CATALOG #
AAA97804

REACTIVITY
Rat

PRODUCT SYNONYMS

Mu-type opioid receptor; Rat Mu-type opioid receptor ELISA Kit; Oprm1/M-OR-1/MOR-1/Ror-b/Mu-type opioid receptor/Opioid receptor B; Oprm1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Oprm1. No significant cross-reactivity or interference between Oprm1 and analogues was observed.
Sequence Length	393
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Oprm1 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Oprm1 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
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

Typical Data & Standard Curve									
Results of a typical standard run of a Oprm1 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A/not applicable)									
X	pg/ml	0	31.25	62.5	125	250	500	1000	2000
Y	OD450	0.161	0.38	0.49	0.664	1.011	1.517	1.998	2.533

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Oprm1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Oprm1 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- Oprm1 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Oprm1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Oprm1 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	145553980
NCBI GeneID	25601
NCBI Accession #	NP_001033688.2
NCBI GenBank Nucleotide #	NM_001038599.2
Molecular Weight	43,317 Da
NCBI Official Full Name	mu-type opioid receptor isoform 1B2
NCBI Official Synonym Full Names	opioid receptor, mu 1
NCBI Official Symbol	Oprm1
NCBI Official Synonym Symbols	MORA; Oprm; Oprrm1
NCBI Protein Information	mu-type opioid receptor
UniProt Protein Name	Mu-type opioid receptor
UniProt Gene Name	Oprm1
UniProt Synonym Gene Names	Ror-b; M-OR-1; MOR-1
UniProt Entry Name	OPRM_RAT

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/oprm1-rat-elisa-kits/mu-type-opioid-receptor/97804>