

Rat Cholinergic Receptor, Nicotinic, Alpha 1 (CHRNA1) ELISA Kit | CHRNA1 elisa kit

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CATALOG #
AAA136859

REACTIVITY
Rat

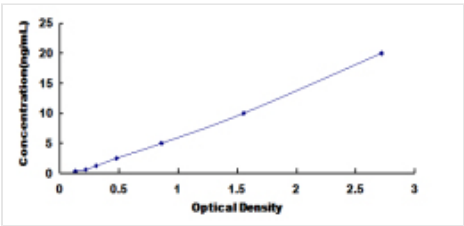
PRODUCT SYNONYMS

Cholinergic Receptor; Nicotinic; Alpha 1 (CHRNA1); Rat Cholinergic Receptor; Alpha 1 (CHRNA1) ELISA Kit; CHR-NA1; N-AChRA1; NACHRA1; ACHRA; ACHRD; CMS2A; FCCMS; SCCMS; Acetylcholine receptor subunit alpha; N-AChR-A1; Neuronal Acetylcholine Receptor Alpha 1; Muscle; CHRNA1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Cholinergic Receptor, Nicotinic, Alpha 1 (CHRNA1). No significant cross-reactivity or interference between Cholinergic Receptor, Nicotinic, Alpha 1 (CHRNA1) and analogues was observed.
Sequence Length	457
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.112ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Cholinergic Receptor, Nicotinic, Alpha 1 (CHRNA1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Cholinergic Receptor, Nicotinic, Alpha 1 (CHRNA1) 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.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CHRNa1 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 Cholinergic Receptor, Nicotinic, Alpha 1 (CHRNa1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Cholinergic Receptor, Nicotinic, Alpha 1 (CHRNa1). 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 Cholinergic Receptor, Nicotinic, Alpha 1 (CHRNa1), 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 Cholinergic Receptor, Nicotinic, Alpha 1 (CHRNa1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for CHRNa1 elisa kit	Signal transduction; Neuroscience

NCBI AND UNIPROT INFORMATION

NCBI GI #	119631533
NCBI GeneID	1134
UniProt Accession #	P02708; B4DRV6; D3DPE8
Molecular Weight	51,839 Da
NCBI Official Full Name	cholinergic receptor, nicotinic, alpha 1 (muscle), isoform CRA_a
NCBI Official Synonym Full Names	cholinergic receptor, nicotinic, alpha 1 (muscle)
NCBI Official Symbol	CHRNA1
NCBI Official Synonym Symbols	ACHRA; ACHRD; CHRNA; CMS1A; CMS1B; CMS2A; FCCMS; SCCMS
NCBI Protein Information	acetylcholine receptor subunit alpha
UniProt Protein Name	Acetylcholine receptor subunit alpha
UniProt Gene Name	CHRNA1
UniProt Synonym Gene Names	ACHRA; CHNRA
UniProt Entry Name	ACHA_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.