

Rat Cholinergic Receptor, Nicotinic, Alpha 7 (CHRNA7) ELISA Kit | CHRNA7 elisa kit

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CATALOG #
AAA161490

REACTIVITY
Rat

PRODUCT SYNONYMS

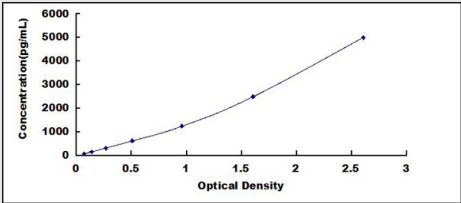
Cholinergic Receptor; Nicotinic; Alpha 7 (CHRNA7); Rat Cholinergic Receptor; Alpha 7 (CHRNA7) ELISA Kit; CHRNA7 ELISA kit (Rat); CHR-NA7; CHRN-A7; N-AChRA7; NACHRA7; N-AChR-A7; Neuronal Acetylcholine Receptor Alpha 7; CHRNA7 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Cholinergic Receptor, Nicotinic, Alpha 7 (CHRNA7). No significant cross-reactivity or interference between Cholinergic Receptor, Nicotinic, Alpha 7 (CHRNA7) and analogues was observed. Reactive with Rat CHRNA7/Cholinergic Receptor, Nicotinic, Alpha 7
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Method	Colormetric
Featured Series	SE kit
Detection Range	78-5,000pg/mL
Sensitivity	31pg/mL
Sample Size	100uL
Assay Time	3h
Function	Detects protein (regular version)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Cholinergic Receptor, Nicotinic, Alpha 7 (CHRNA7) 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 7 (CHRNA7) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50ul Stop Solution. Read at 450nm immediately.

Test Principle	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 7 (CHRNA7). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Cholinergic Receptor, Nicotinic, Alpha 7 (CHRNA7). 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 7 (CHRNA7), 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 7 (CHRNA7) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	Neuro science
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) 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)
Typical Standard Curve for CHRNA7 ELISA (Sandwich)

NCBI AND UNIPROT INFORMATION

NCBI GI #	672036982
NCBI GeneID	25302
NCBI Accession #	XP_008757720
NCBI GenBank Nucleotide #	XM_008759498.1
UniProt Accession #	Q05941; Q53YK2
Molecular Weight	56,503 Da
NCBI Official Full Name	neuronal acetylcholine receptor subunit alpha-7 isoform X2
NCBI Official Synonym Full Names	cholinergic receptor nicotinic alpha 7 subunit
NCBI Official Symbol	Chrna7
NCBI Official Synonym Symbols	BTX; NARAD; nAChRa7
NCBI Protein Information	neuronal acetylcholine receptor subunit alpha-7
UniProt Protein Name	Neuronal acetylcholine receptor subunit alpha-7
UniProt Gene Name	Chrna7
UniProt Synonym Gene Names	Acra7
UniProt Entry Name	ACHA7_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://www.aaabiotech.com/rat-elisa-kits/cholinergic-receptor-nicotinic-alpha-7-chrna7/161490>