

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

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CATALOG #
AAA66201

REACTIVITY
Human

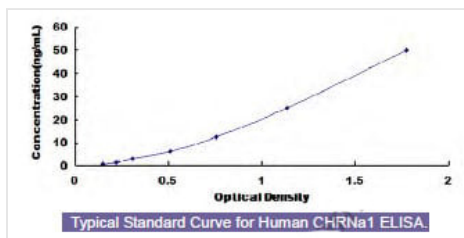
PRODUCT SYNONYMS

Cholinergic Receptor; Nicotinic; Alpha 1 (CHRNA1); Human 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	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of CHRNA1. No significant cross-reactivity or interference between CHRNA1 and analogues was observed.
Sequence Length	457
Samples	Tissue homogenates and other biological fluids.
Assay Type	Sandwich
Detection Range	0.781-50ng/mL
Sensitivity	0.28ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CHRNA1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CHRNA1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CHRNa1 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CHRNa1 in human tissue homogenates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CHRNa1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to 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 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 CHRNa1 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 #	4557457
NCBI GeneID	1134
NCBI Accession #	NP_000070.1
NCBI GenBank Nucleotide #	NM_000079.3
UniProt Accession #	P02708; B4DRV6; D3DPE8
Molecular Weight	51,839 Da
NCBI Official Full Name	acetylcholine receptor subunit alpha isoform b
NCBI Official Synonym Full Names	cholinergic receptor nicotinic alpha 1 subunit
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

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/human-elisa-kits/cholinergic-receptor-nicotinic-alpha-1-chrna1/66201>