

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

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CATALOG #
AAA139572

REACTIVITY
Human

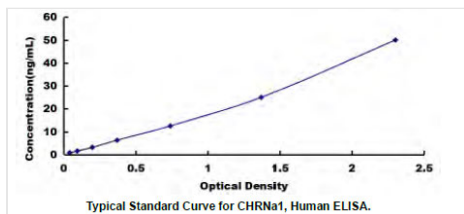
PRODUCT SYNONYMS

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
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.78-50ng/mL
Sensitivity	0.33ng/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	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	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CHRNa1 in human tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to CHRNa1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody 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.
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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/cholinergic-receptor-nicotinic-alpha-1-chrna1/139572>