

Recombinant Human CHRNA7 293 Cell Lysate

Cat. No. CHRNA7-7514HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for cholinergic receptor, nicotinic, alpha 7 (CHRNA7) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

CHRNA7 cholinergic receptor, nicotinic, alpha 7 (neuronal) [Homo sapiens]

Official Symbol

CHRNA7

Synonyms

CHRNA7; cholinergic receptor, nicotinic, alpha 7 (neuronal); cholinergic receptor, nicotinic, alpha polypeptide 7; neuronal acetylcholine receptor subunit alpha-7; acetylcholine receptor; nicotinic; alpha 7 (neuronal); a7 nicotinic acetylcholine receptor; alpha-7 nicotinic cholinergic receptor subunit; alpha 7 neuronal nicotinic acetylcholine receptor; acetylcholine receptor, nicotinic, alpha 7 (neuronal); neuronal acetylcholine receptor protein, alpha-7 chain; NACHRA7; CHRNA7-2;

Gene ID

1139

mRNA Refseq

NM_000746

Protein Refseq

NP_000737

MIM

118511

UniProt ID

P36544

Chromosome Location

15q13.3

Pathway

Acetylcholine Binding And Downstream Events, organism-specific biosystem;

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Activation of Nicotinic Acetylcholine Receptors, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Cholinergic synapse, organism-specific biosystem; Highly calcium permeable postsynaptic nicotinic acetylcholine receptors, organism-specific biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem;

Function

acetylcholine binding; acetylcholine receptor activity; acetylcholine-activated cation-selective channel activity; beta-amyloid binding; chloride channel regulator activity; extracellular ligand-gated ion channel activity; ion channel activity; protein homodimerization activity; receptor activity; toxin binding;

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