

## Recombinant Human CHRNA1 293 Cell Lysate

**Cat. No.** CHRNA1-7517HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for cholinergic receptor, nicotinic, alpha 1 (muscle) (CHRNA1), transcript variant 1 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.
<b>Components</b>	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).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	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.
<b>Applications</b>	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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

<b>Gene Name</b>	CHRNA1 cholinergic receptor, nicotinic, alpha 1 (muscle) [ Homo sapiens ]
<b>Official Symbol</b>	CHRNA1
<b>Synonyms</b>	CHRNA1; cholinergic receptor, nicotinic, alpha 1 (muscle); cholinergic receptor, nicotinic, alpha polypeptide 1 (muscle) , CHRNA; acetylcholine receptor subunit alpha; acetylcholine receptor; nicotinic; alpha 1 (muscle); nicotinic cholinergic receptor alpha 1; muscle nicotinic acetylcholine receptor; nicotinic acetylcholine receptor alpha subunit; acetylcholine receptor, nicotinic, alpha 1 (muscle); cholinergic receptor, nicotinic, alpha polypeptide 1 (muscle); ACHRA; ACHRD; CHRNA; CMS2A; FCCMS; SCCMS;
<b>Gene ID</b>	1134
<b>mRNA Refseq</b>	NM_000079
<b>Protein Refseq</b>	NP_000070
<b>MIM</b>	100690
<b>UniProt ID</b>	P02708
<b>Chromosome Location</b>	2q31.1
<b>Pathway</b>	Acetylcholine Binding And Downstream Events, organism-specific biosystem; Activation of Nicotinic Acetylcholine Receptors, organism-specific biosystem; Effects

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of Botulinum toxin, organism-specific biosystem; ErbB2/ErbB3 signaling events, organism-specific biosystem; Highly calcium permeable nicotinic acetylcholine receptors, organism-specific biosystem; Highly calcium permeable postsynaptic nicotinic acetylcholine receptors, organism-specific biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem;

**Function**

contributes\_to acetylcholine binding; contributes\_to acetylcholine receptor activity; acetylcholine-activated cation-selective channel activity; contributes\_to acetylcholine-activated cation-selective channel activity; extracellular ligand-gated ion channel activity; ion channel activity; receptor activity;

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