Recombinant Human CHRNA2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CHRNA2-1163H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CHRNA2 MS Standard C13 and N15-labeled recombinant protein (NP_000733) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Nicotinic acetylcholine receptors (nAChRs) are ligand-gated ion channels formed by a pentameric arrangement of alpha and beta subunits to create distinct muscle and neuronal receptors. Neuronal receptors are found throughout the peripheral and central nervous system where they are involved in fast synaptic transmission. This gene encodes an alpha subunit that is widely expressed in the brain. The proposed structure for nAChR subunits is a conserved N-terminal extracellular domain followed by three conserved transmembrane domains, a variable cytoplasmic loop, a fourth conserved transmembrane domain, and a short C-terminal extracellular region. Mutations in this gene cause autosomal dominant nocturnal frontal lobe epilepsy type 4. Single nucleotide polymorphisms (SNPs) in this gene have been associated with nicotine dependence.
Molecular Mass	59.75 kDa
AA Sequence	MGPSCPVFLSFTKLSLWWLLLIPAGGEEAKRPPPRAPGDPLSSPSPTALPQGGSHT ETEDRLFKHLFRGYNRWARPVPNTSDVVIVRFGLSIAQLIDVDEKNQMMTTNVWLK

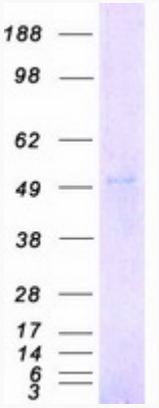
Tel: 1-631-559-9269 1-516-512-3133
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	QEWSDYKLRWNPADFGNITSLRVPSEMIWIPDIVLYNNADGEFAVTHMTKAHLFSTG TVHWVPPAIYKSSCSIDVTFFPFDQQNCKMKFGSWTYDKAKIDLEQMEQTVDLKDY WESGEWAIVNATGTYNSKKYDCCAEIYPDVTYAFVIRRLPLFYTINLIIPCLLISCLTVL VFYLPSDCGEKITLCISVLLSLTVFLLLITEIIPSTSLVIPLIGEYLLFTMIFVTLSIVITVFVL NVHHRSPSTHTMPHWVRGALLGCVPRWLLMNRPPPPVELCHPLRLKLSPSYHWLE SNVDAEEREVVVEEEDRWACAGHVAPSVGTLCSHGHLHSGASGPKAEALLQEGEL LLSPHMQKALEGVHYIADHLRSEDADSSVKEDWKYVAMVIDRIFLWLFIIVCFLGTIGL FLPPFLAGMITRTRPLEQKLISEEDLAANDILDYKDDDDKV	
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	CHRNA2 cholinergic receptor nicotinic alpha 2 subunit [Homo sapiens (human)]
Official Symbol	CHRNA2
Synonyms	CHRNA2; cholinergic receptor, nicotinic, alpha 2 (neuronal); cholinergic receptor, nicotinic, alpha polypeptide 2 (neuronal); neuronal acetylcholine receptor subunit alpha-2; acetylcholine receptor; nicotinic; alpha 2 (neuronal); acetylcholine receptor, nicotinic, alpha 2 (neuronal);

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Gene ID	1135
mRNA Refseq	NM_000742
Protein Refseq	NP_000733
MIM	118502
UniProt ID	Q15822
SDS-PAGE	

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