Recombinant Human CHRNA2 Protein, GST-Tagged

Cat. No. CHRNA2-1279H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CHRNA2 partial ORF (NP_000733, 27 a.a. - 136 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. [provided by RefSeq, Nov 2009]
Molecular Mass	37.84 kDa
AA Sequence	EEAKRPPPRAPGDPLSSPSPTALPQGGSHTETEDRLFKHLFRGYNRWARPVPNTS DVVIVRFGLSIAQLIDVDEKNQMMTTNVWLKQEWSDYKLRWNPADFGNITSLRVP
Applications	Enzyme-linked Immunoabsorbent Assay

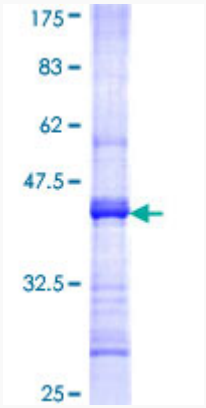
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	Western Blot (Recombinant protein) Antibody Production Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	CHRNA2 cholinergic receptor, nicotinic, alpha 2 (neuronal) [Homo sapiens]
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);
Gene ID	1135
mRNA Refseq	NM_000742
Protein Refseq	NP_000733
MIM	118502
UniProt ID	Q15822

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Quality Control Testing	 12.5% SDS-PAGE Stained with Coomassie Blue.

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