SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

MemDX™ Membrane Protein Human CHRNA2 (Cholinergic receptor nicotinic alpha 2 subunit) Full Length

Cat. No.: **MPC0461K**
This product is for research use only and is not intended for diagnostic use.

This product is a 59.7 kDa Human CHRNA2 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
CHRNA2

Protein Length
Full length

Protein Class
Transporter; Ion channel

Molecular Weight
59.7 kDa

TMD
4

Sequence
MGPSCPVFLSFTKLSLWWLLLTPAGGEEAKRPPPRAPGDPLSSPSPTALP
QGGSHTETEDRLFKHLFRGYNRWARPVPNTSDVVIVRFGLSIAQLIDVDE
KNQMMTTNVWLKQEWSDYKLRWNPTDFGNITSLRVPSEMIWIPDIVLYNN
ADGEFAVTHMTKAHLFSTGTVHWVPPAIYKSSCSIDVTFFPFDQQNCKMK
FGSWTYDKAKIDLEQMEQTVDLKDYWESGEWAIVNATGTYNSKKYDCCAE
IYPDVTYAFVIRRLPLFYTINLIIPCLLISCLTVLVFYLPSDCGEKITLC
ISVLLSLTVFLLLITEIIPSTSLVIPLIGEYLLFTMIFVTLSIVITVFVL
NVHHRSPSTHTMPHWVRGALLGCVPRWLLMNRPPPPVELCHPLRLKLSPS
YHWLESNVDAEEREVVVEEEDRWACAGHVAPSVGTLCSHGHLHSGASGPK
AEALLQEGELLLSPHMQKALEGVHYIADHLRSEDADSSVKEDWKYVAMVI
DRIFLWLFIIVCFLGTIGLFLPPFLAGMI

Product Description

Expression Systems
HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

CHRNA2

Full Name

Cholinergic receptor nicotinic alpha 2 subunit

Introduction

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.

Alternative Names

neuronal acetylcholine receptor subunit alpha-2; acetylcholine receptor, nicotinic, alpha 2 (neuronal); cholinergic receptor, nicotinic alpha 2; cholinergic receptor, nicotinic, alpha 2 (neuronal); cholinergic receptor, nicotinic, alpha polypeptide 2 (neuronal); CHRNA2; Cholinergic receptor nicotinic alpha 2 subunit

Gene ID

1135

UniProt ID

Q15822

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