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Product Information

MemDX™ Membrane Protein Human KCNB1 (Potassium voltage-gated channel subfamily B member 1) Full Length

Cat. No.: **MPC0585K**
This product is for research use only and is not intended for diagnostic use.

This product is a 95.8 kDa Human KCNB1 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
KCNB1

Protein Length
Full length

Protein Class
Transporter; Ion channel

Molecular Weight
95.8 kDa

TMD
6

Sequence
MPAGMTKHGSRSTSSLPPEPMEIVRSKACSRRVRLNVGGLAHEVLWRTLD
RLPRTRLGKLRDCNTHDSLLEVCDDYSLDDNEYFFDRHPGAFTSILNFYR
TGRLHMMEEMCALSFSQELDYWGIDEIYLESCCQARYHQKKEQMNEELKR
EAETLREREGEEFDNTCCAEKRKKLWDLLEKPNSSVAAKILAIISIMFIV
LSTIALSLNTLPELQSLDEFGQSTDNPQLAHVEAVCIAWFTMEYLLRFLS
SPKKWKFFKGPLNAIDLLAILPYYVTIFLTESNKSVLQFQNVRRVVQIFR
IMRILRILKLARHSTGLQSLGFTLRRSYNELGLLILFLAMGIMIFSSLVF
FAEKDEDDTKFKSIPASFWWATITMTTVGYGDIYPKTLLGKIVGGLCCIA
GVLVIALPIPIIVNNFSEFYKEQKRQEKAIKRREALERAKRNGSIVSMNM
KDAFARSIEMMDIVVEKNGENMGKKDKVQDNHLSPNKWKWTKRTLSETSS
SKSFETKEQGSPEKARSSSSPQHLNVQQLEDMYNKMAKTQSQPILNTKES
AAQSKPKEELEMESIPSPVAPLPTRTEGVIDMRSMSSIDSFISCATDFPE
ATRFSHSPLTSLPSKTGGSTAPEVGWRGALGASGGRFVEANPSPDASQHS
SFFIESPKSSMKTNNPLKLRALKVNFMEGDPSPLLPVLGMYHDPLRNRGS
AAAAVAGLECATLLDKAVLSPESSIYTTASAKTPPRSPEKHTAIAFNFEA
GVHQYIDADTDDEGQLLYSVDSSPPKSLPGSTSPKFSTGTRSEKNHFESS
PLPTSPKFLRQNCIYSTEALTGKGPSGQEKCKLENHISPDVRVLPGGGAH
GSTRDQSI

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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

KCNB1

Full Name

Potassium voltage-gated channel subfamily B member 1

Introduction

Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in Drosophila, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shab-related subfamily. This member is a delayed rectifier potassium channel and its activity is modulated by some other family members.

Alternative Names

DRK1; DEE26; Kv2.1; potassium voltage-gated channel subfamily B member 1; delayed rectifier potassium channel 1; potassium voltage-gated channel, Shab-related subfamily, member 1; voltage-gated potassium channel subunit Kv2.1; KCNB1; Potassium voltage-gated channel subfamily B member 1

Gene ID

3745

UniProt ID

Q14721

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