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 KCNH1 (Potassium voltage-gated channel subfamily H member 1) Full Length

Cat. No.: **MPC0594K**
This product is for research use only and is not intended for diagnostic use.

This product is a 111.4 kDa Human KCNH1 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
KCNH1

Protein Length
Full length

Protein Class
Transporter; Ion channel

Molecular Weight
111.4 kDa

TMD
6

Sequence
MTMAGGRRGLVAPQNTFLENIVRRSNDTNFVLGNAQIVDWPIVYSNDGFC
KLSGYHRAEVMQKSSTCSFMYGELTDKDTIEKVRQTFENYEMNSFEILMY
KKNRTPVWFFVKIAPIRNEQDKVVLFLCTFSDITAFKQPIEDDSCKGWGK
FARLTRALTSSRGVLQQLAPSVQKGENVHKHSRLAEVLQLGSDILPQYKQ
EAPKTPPHIILHYCVFKTTWDWIILILTFYTAILVPYNVSFKTRQNNVAW
LVVDSIVDVIFLVDIVLNFHTTFVGPAGEVISDPKLIRMNYLKTWFVIDL
LSCLPYDVINAFENVDEVSAFMGDPGKIGFADQIPPPLEGRESQGISSLF
SSLKVVRLLRLGRVARKLDHYIEYGAAVLVLLVCVFGLAAHWMACIWYSI
GDYEIFDEDTKTIRNNSWLYQLAMDIGTPYQFNGSGSGKWEGGPSKNSVY
ISSLYFTMTSLTSVGFGNIAPSTDIEKIFAVAIMMIGSLLYATIFGNVTT
IFQQMYANTNRYHEMLNSVRDFLKLYQVPKGLSERVMDYIVSTWSMSRGI
DTEKVLQICPKDMRADICVHLNRKVFKEHPAFRLASDGCLRALAMEFQTV
HCAPGDLIYHAGESVDSLCFVVSGSLEVIQDDEVVAILGKGDVFGDVFWK
EATLAQSCANVRALTYCDLHVIKRDALQKVLEFYTAFSHSFSRNLILTYN
LRKRIVFRKISDVKREEEERMKRKNEAPLILPPDHPVRRLFQRFRQQKEA
RLAAERGGRDLDDLDVEKGNVLTEHASANHSLVKASVVTVRESPATPVSF
QAASTSGVPDHAKLQAPGSECLGPKGGGGDCAKRKSWARFKDACGKSEDW
NKVSKAESMETLPERTKASGEATLKKTDSCDSGITKSDLRLDNVGEARSP
QDRSPILAEVKHSFYPIPEQTLQATVLEVRHELKEDIKALNAKMTNIEKQ

LSEILRILTSRRSSQSPQELFEISRPQSPESERDIFGAS

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

KCNH1

Full Name

Potassium voltage-gated channel subfamily H 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. This gene encodes a member of the potassium channel, voltage-gated, subfamily H. This member is a pore-forming (alpha) subunit of a voltage-gated non-inactivating delayed rectifier potassium channel. It is activated at the onset of myoblast differentiation. The gene is highly expressed in brain and in myoblasts. Overexpression of the gene may confer a growth advantage to cancer cells and favor tumor cell proliferation. Alternative splicing of this gene results in two transcript variants encoding distinct isoforms.

Alternative Names

EAG; EAG1; ZLS1; hEAG; TMBTS; h-eag; hEAG1; Kv10.1; potassium voltage-gated channel subfamily H member 1; EAG channel 1; ether-a-go-go 1; ether-a-go-go potassium channel 1; ether-a-go-go, Drosophila, homolog of; potassium channel, voltage gated eag related subfamily H, member 1; potassium voltage-gated channel, subfamily H (eag-related), member 1; voltage-gated potassium channel subunit Kv10.1; KCNH1; Potassium voltage-gated channel subfamily H member 1

Gene ID

3756

UniProt ID

O95259