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Product Information

MemDX™ Membrane Protein Human KCNK4 (Potassium two pore domain channel subfamily K member 4) for Antibody Discovery

Cat. No.: **MP1231J**
This product is for research use only and is not intended for diagnostic use.

This product is a 42.5 kDa Human KCNK4 membrane protein expressed in HEK293T. 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
KCNK4

Protein Length
Full-length

Protein Class
Druggable Genome, Ion Channels: Potassium, Transmembrane

Molecular Weight
42.5 kDa

TMD
4

Sequence
MGAGDAGASAESAVTTAPQEPPARPLQAGSGAGPAPGRAMRSTTLLALLALVLLYLVSGALVFRALEQPH
EQQAQRELGEVREKFLRAHPCVSDQELGLLIKEVADALGGGADPETNSTSNSSHSAWDLGSAFFFSGTII
TTIGYGNVALRTDAGRLFCIFYALVGIPLFGILLAGVGDRLGSSLRHGIGHIEAIFLKWHVPPELVRVLS
AMLFLLIGCLLFVLTPTFVFCYMEDWSKLEAIYFVIVTLTTVGFGDYVAGADPRQDSPAYQPLVWFWILL
GLAYFASVLTTIGNWLRVVSRRTRAEMGGLTAQAASWTGTVTARVTQRAGPAAPPPEKEQPLLPPPPCPA
QPLGRPRSPSPPEKAQPPSPPTASALDYPSENLAFIDESSDTQSERGCPLPRAPRGRRRPNPPRKPVRPR
GPGRPRDKGVPV

Product Description

Expression Systems
HEK293T

Tag
C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

KCNK4

Full Name

Potassium two pore domain channel subfamily K member 4

Introduction

This gene encodes a member of the TWIK-related arachidonic acid-stimulated two pore potassium channel subfamily. The encoded protein homodimerizes and functions as an outwardly rectifying channel. This channel is regulated by polyunsaturated fatty acids, temperature and mechanical deformation of the lipid membrane. This protein is expressed primarily in neural tissues and may be involved in regulating the noxious input threshold in dorsal root ganglia neurons. Alternate splicing results in multiple transcript variants. Naturally occurring read-through transcripts also exist between this gene and the downstream testis expressed 40 (TEX40) gene, as represented in GeneID: 106780802.

Alternative Names

FHEIG; TRAAK; K2p4.1; TRAAK1; K2P4.1 potassium channel; TWIK-related arachidonic acid-stimulated potassium channel protein; potassium channel, subfamily K, member 4; potassium channel, two pore domain subfamily K, member 4; two pore K(+) channel KT4.1; two pore K+ channel KT4.1; two pore potassium channel KT4.1

Gene ID

50801

UniProt ID

Q9NYG8

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