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Product Information

MemDX™ Membrane Protein Human KCNJ4 (Potassium inwardly rectifying channel subfamily J member 4) for Antibody Discovery

Cat. No.: **MP0590X**
This product is for research use only and is not intended for diagnostic use.

This product is a 75.35 kDa Human KCNJ4 membrane protein expressed in *in vitro* wheat germ expression system. 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
KCNJ4

Protein Length
Full-length

Molecular Weight
75.35 kDa

TMD
2

Sequence
MHGHSRNGQAHVPRRKRRNRFVKKNGQCNVYFANLSNKSQRYMADIFTTCVDTRWRYMLMIFSAAFLVSWLFFGLLFWCIAFFHQ

Product Description

Application
Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

Expression Systems
in vitro wheat germ expression system

Tag
GST-tag at N-terminal

Form
Liquid

Purification

Glutathione Sepharose 4 Fast Flow

Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer

Storage

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

Target

Target Protein

KCNJ4

Full Name

Potassium inwardly rectifying channel subfamily J member 4

Introduction

Several different potassium channels are known to be involved with electrical signaling in the nervous system. One class is activated by depolarization whereas a second class is not. The latter are referred to as inwardly rectifying K+ channels, and they have a greater tendency to allow potassium to flow into the cell rather than out of it. This asymmetry in potassium ion conductance plays a key role in the excitability of muscle cells and neurons. The protein encoded by this gene is an integral membrane protein and member of the inward rectifier potassium channel family. The encoded protein has a small unitary conductance compared to other members of this protein family. Two transcript variants encoding the same protein have been found for this gene

Alternative Names

HIR; HRK1; IRK3; HIRK2; IRK-3; Kir2.3

Gene ID

3761

UniProt ID

P48050

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