

Product Information

MemDX™ Membrane Protein Human KCNJ1 (Potassium inwardly rectifying channel subfamily J member 1) Expressed in Wheat germ for Antibody Discovery, Partial (276-379aa)

Cat. No.: **MPX0060K**

This product is for research use only and is not intended for diagnostic use.

This product is a 37 kDa Human KCNJ1 membrane protein expressed in Wheat germ. 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

KCNJ1

Protein Length

Partial (276-379aa)

Protein Class

Transporter; Ion channel

Molecular Weight

37 kDa

TMD

2

Sequence

DFELVLILSGTVESTSATCQVRTSYLPEEILWGYEFTPAISLSASGKYIADFSLFQVVKVASPSGLRDSTVRYGDPEKLKLEESLREG

Product Description

Expression Systems

Wheat germ

Protein Format

Soluble

Form

Liquid

Endotoxin

<0.1 EU/µg by the LAL method

Buffer

pH: 8.00, Constituents: 0.31% Glutathione, 0.79% Tris HCl

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**

KCNJ1

Full Name

Potassium inwardly rectifying channel subfamily J member 1

Introduction

Potassium channels are present in most mammalian cells, where they participate in a wide range of physiologic responses. The protein encoded by this gene is an integral membrane protein and inward-rectifier type potassium channel. It is activated by internal ATP and probably plays an important role in potassium homeostasis. The encoded protein has a greater tendency to allow potassium to flow into a cell rather than out of a cell. Mutations in this gene have been associated with antenatal Bartter syndrome, which is characterized by salt wasting, hypokalemic alkalosis, hypercalciuria, and low blood pressure. Multiple transcript variants encoding different isoforms have been found for this gene.

Alternative Names

ROMK; ROMK1; KIR1.1; ATP-sensitive inward rectifier potassium channel 1; ATP-regulated potassium channel ROM-K; inward rectifier K(+) channel Kir1.1; inwardly rectifying K⁺ channel; potassium channel, inwardly rectifying subfamily J member 1; potassium voltage-gated channel subfamily J member 1; KCNJ1; Potassium inwardly rectifying channel subfamily J member 1

Gene ID

[3758](#)

UniProt ID

[P48048](#)