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Product Information

MemDX™ Membrane Protein Human KCNJ11 (Potassium inwardly rectifying channel subfamily J member 11) Expressed *in vitro E.coli* expression system, Full Length

Cat. No.: **MPX1765K**
This product is for research use only and is not intended for diagnostic use.

This product is a Human KCNJ11 membrane protein expressed *in vitro E.coli* 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
KCNJ11

Protein Length
Full Length

Protein Class
Ion channel, Transport

TMD
2

Sequence
MLSRKGIIPEEYVLTRLAEDPAEPRYRARQRRARFVSKKGNCNVAHKNIREQGRFLQDVFTTLVDLKWPHTLLIFTMSFLCSWLLFA

Product Description

Expression Systems
in vitro E.coli expression system

Tag
10xHis tag at the N-terminus

Protein Format
Soluble

Form
Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

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

KCNJ11

Full Name

Potassium inwardly rectifying channel subfamily J member 11

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. The encoded protein, which has a greater tendency to allow potassium to flow into a cell rather than out of a cell, is controlled by G-proteins and is found associated with the sulfonylurea receptor SUR. Mutations in this gene are a cause of familial persistent hyperinsulinemic hypoglycemia of infancy (PHHI), an autosomal recessive disorder characterized by unregulated insulin secretion. Defects in this gene may also contribute to autosomal dominant non-insulin-dependent diabetes mellitus type II (NIDDM), transient neonatal diabetes mellitus type 3 (TNDM3), and permanent neonatal diabetes mellitus (PNDM). Multiple alternatively spliced transcript variants that encode different protein isoforms have been described for this gene.

Alternative Names

KCNJ11; BIR; HHF2; PHHI; IKATP; PNDM2; TNDM3; KIR6.2; MODY13; ATP-sensitive inward rectifier potassium channel 11; beta-cell inward rectifier subunit; inward rectifier K(+) channel Kir6.2; inwardly rectifing potassium channel subfamily J member 11; inwardly rectifying potassium channel KIR6.2; inwardly-rectifying potassium channel subfamily J member 11; potassium channel inwardly rectifing subfamily J member 11; potassium channel, inwardly rectifying subfamily J member 11; potassium voltage-gated channel subfamily J member 11; Potassium inwardly rectifying channel subfamily J member 11

Gene ID

3767

UniProt ID

Q14654

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