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Product Information

MemDX™ Membrane Protein Mouse Kcnj1 (Potassium inwardly-rectifying channel, subfamily J, member 1)

Cat. No.: **MP0019F**
This product is for research use only and is not intended for diagnostic use.

The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Mouse

Target Protein
Kcnj1

Protein Length
Full Length

Protein Class
Channel

Molecular Weight
42.7 kDa

TMD
2

Sequence
MFKHLRRWFVTHIFGRSRQRARLVSKDGRCNIEFGNVDAQSRFIFFVDIWTTVLDLKWRY
KMTVFITAFLGSWFLFGLLWYVVAYVHKDLPEFYPPDNRTPCVENINGMTSAFLFSLETQ
VTIGYGFRFVTEQCATAIFLLIFQSILGVIINSFMCGAILAKISRPKKRAKTITFSKNAV
ISKRGGKLCLLIRVANLRKSLLIGSHIYGKLLKTTITPEGETIILDQTNINFVVDAGNEN
LFFISPLTIYHIIDHNSPFFHMAAETLSQQDFELVVFLDGTVESTSATCQVRTSYIPEEV
LWGYRFVPIVSKTKEGKYRVDFHNFGKTVEVETPHCAMCLYNEKDARARMKRGYDNPNFV
LSEVDETDDTQM

Product Description

Activity
To be tested

Application
Screening & display technologies, Structural biology

Expression Systems

Cell-free expression system

Tag

Histidine tag fused to the N-terminal end of the protein

Protein Format

Proteoliposome

Form

Powder

Purification

Sucrose gradient

Purity

>40% by SDS-Page and Coomassie Blue staining

Buffer

Tris 50mM, pH 7.5

Storage

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

Target

Target Protein

Kcnj1

Full Name

Potassium inwardly-rectifying channel, subfamily J, member 1

Introduction

In the kidney, probably plays a major role in potassium homeostasis. Inward rectifier potassium channels are characterized by a greater tendency to allow potassium to flow into the cell rather than out of it. Their voltage dependence is regulated by the concentration of extracellular potassium; as external potassium is raised, the voltage range of the channel opening shifts to more positive voltages. The inward rectification is mainly due to the blockage of outward current by internal magnesium. This channel is activated by internal ATP and can be blocked by external barium (By similarity).

Alternative Names

ROMK, Romk2, Kir1.1

Gene ID

56379

UniProt ID

O88335

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