

Product Information

MemDX™ Membrane Protein Human KCNJ10 (Potassium inwardly rectifying channel subfamily J member 10) for Antibody Discovery

Cat. No.: **MP1367J**

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

This product is a 39.8 kDa Human KCNJ10 membrane protein expressed in E.coli. 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

KCNJ10

Protein Length

Partial (165-379aa)

Protein Class

Ion Channel

Molecular Weight

39.8 kDa

Sequence

FLAKIARPKKRAETIRFSQHAVVASHNGKPCLMIRVANMRKSLIGCQVTGKLLQTHQTKEGENIRLNQVNVTFQVDTASDSPFLILP

Product Description

Expression Systems

E.coli

Tag

N-6xHis-SUMO

Form

Liquid or Lyophilized powder

Reconstitution

Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration).

Purity

>90% as determined by SDS-PAGE

Buffer

Liquid: Tris/PBS-based buffer, 5%-50% glycerol

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

Storage

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

Target

Target Protein

KCNJ10

Full Name

Potassium inwardly rectifying channel subfamily J member 10

Introduction

This gene encodes a member of the inward rectifier-type potassium channel family, characterized by having a greater tendency to allow potassium to flow into, rather than out of, a cell. The encoded protein may form a heterodimer with another potassium channel protein and may be responsible for the potassium buffering action of glial cells in the brain. Mutations in this gene have been associated with seizure susceptibility of common idiopathic generalized epilepsy syndromes.

Alternative Names

inwardly rectifying subfamily J member 10; ATP dependent inwardly rectifying potassium channel Kir4.1; ATP sensitive inward rectifier potassium channel 10; ATP-dependent inwardly rectifying potassium channel Kir4.1; ATP-sensitive inward rectifier potassium channel 10; BIRK10; Glial ATP dependent inwardly rectifying potassium channel KIR4.1; Inward rectifier K(+) channel Kir1.2; Inward rectifier K+ channel KIR1.2; Inwardly rectifying potassium channel Kir1.2; KCJ10_HUMAN; KCNJ 10; Kcnj10; KCNJ13 PEN; KIR1.2; KIR4.1; Potassium channel; Potassium channel inwardly rectifying subfamily J member 10; Potassium inwardly rectifying channel subfamily J member 10; SESAME

Gene ID

[3766](#)

UniProt ID

[P78508](#)