SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

# Product Information

## MemDX™ Membrane Protein Human KCNJ5 (Potassium inwardly rectifying channel subfamily J member 5) for Antibody Discovery

Cat. No.: **MP1208J**
This product is for research use only and is not intended for diagnostic use.

This product is a 47.5 kDa Human KCNJ5 membrane protein expressed in HEK293T. 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**
KCNJ5

**Protein Length**
Full-length

**Protein Class**
Druggable Genome, Ion Channels: Potassium, Transmembrane

**Molecular Weight**
47.5 kDa

**TMD**
2

**Sequence**
MAGDSRNAMNQDMEIGVTPWDPKKIPKQARDYVPIATDRTRLLAEGKKPRQRYMEKSGKCNVHHGNVQET
YRYLSDLFTTLVDLKWRFNLLVFTMVYTVTWLFFGFIWWLIAYIRGDLDHVGDQEWIPCVENLSGFVSAF
LFSIETETTIGYGFRVITEKCPEGIILLLVQAILGSIVNAFMVGCMFVKISQPKKRAETLMFSNNAVISM
RDEKLCLMFRVGDLRNSHIVEASIRAKLIKSRQTKEGEFIPLNQTDINVGFDTGDDRLFLVSPLIISHEI
NEKSPFWEMSQAQLHQEEFEVVVILEGMVEATGMTCQARSSYMDTEVLWGHRFTPVLTLEKGFYEVDYNT
FHDTYETNTPSCCAKELAEMKREGRLLQYLPSPPLLGGCAEAGLDAEAEQNEEDEPKGLGGSREARGSV

## Product Description

**Expression Systems**
HEK293T

**Tag**
C-Myc/DDK


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**Form**

Liquid

**Purification**

Anti-DDK affinity column followed by conventional chromatography steps

**Purity**

> 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer**

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

**Storage**

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

## Target

**Target Protein**

KCNJ5

**Full Name**

Potassium inwardly rectifying channel subfamily J member 5

**Introduction**

This gene encodes an integral membrane protein which belongs to one of seven subfamilies of inward-rectifier potassium channel proteins called potassium channel subfamily J. The encoded protein is a subunit of the potassium channel which is homotetrameric. It is controlled by G-proteins and has a greater tendency to allow potassium to flow into a cell rather than out of a cell. Naturally occurring mutations in this gene are associated with aldosterone-producing adenomas.

**Alternative Names**

CIR; GIRK4; KATP1; LQT13; KIR3.4

**Gene ID**

3762

**UniProt ID**

P48544

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