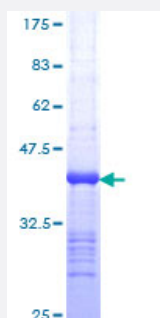


KCNJ2 (Human) Recombinant Protein (Q01)

Catalog # H00003759-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human KCNJ2 partial ORF (NP_000882, 328 a.a. - 427 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	PVLFEEKHYKVDYSRFHKTYEVPNTPLCSARDLAEKKYILSNANSFCYENEVALTSKEEDDSEN GVPESTSTDTPPDIDLHNQASVPLEPRPLRRESEI
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (96); Rat (96)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — KCNJ2

Entrez GeneID [3759](#)

GeneBank Accession# [NM_000891](#)

Protein Accession# [NP_000882](#)

Gene Name KCNJ2

Gene Alias HHBIRK1, HHIRK1, IRK1, KIR2.1, LQT7, SQT3

Gene Description potassium inwardly-rectifying channel, subfamily J, member 2

Omim ID [170390](#) [600681](#) [609622](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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, probably participates in establishing action potential waveform and excitability of neuronal and muscle tissues. Mutations in this gene have been associated with Andersen syndrome, which is characterized by periodic paralysis, cardiac arrhythmias, and dysmorphic features. [provided by RefSeq]

Other Designations cardiac inward rectifier potassium channel|inward rectifier K+ channel KIR2.1|inward rectifier potassium channel 2|potassium inwardly-rectifying channel J2

Publication Reference

- [Surface translocation of Kir2.1 channel induces IL-1 \$\beta\$ secretion in microglia.](#)

Yuko Maejima, Shoichiro Horita, Shoko Yokota, Megumi Yamachi, Masaru Shimizu, Tomoyuki Ono, Zhiquian Yu, Hiroaki Tomita, Kenju Shimomura.

Molecular and Cellular Neurosciences 2022 May; 120:103734.

Application: WB, Human, N/A

Disease

- [Arrhythmia](#)
- [Arrhythmias](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Long QT syndrome](#)
- [Sudden Infant Death](#)