

Recombinant Human KCNJ2

Cat. No. KCNJ2-27881TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Kir2.1 (amino acids 328-427) with N terminal proprietary tag; Predicted MWt 36.63 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	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.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Heart, brain, placenta, lung, skeletal muscle, and kidney. Diffusely distributed throughout the brain.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PVLFEEKHYKVDYSRFHKTYEVPNTPLCSARDLAEKKYILSNANSFCYENEVALTS KEEDDSENGVPESTSTDTPPDIDLHNQASVPLEPRPLRRESEI
Sequence Similarities	Belongs to the inward rectifier-type potassium channel (TC 1.A.2.1) family. KCNJ2 subfamily.

GENE INFORMATION

Gene Name	KCNJ2 potassium inwardly-rectifying channel, subfamily J, member 2 [Homo sapiens]
Official Symbol	KCNJ2
Synonyms	KCNJ2; potassium inwardly-rectifying channel, subfamily J, member 2; inward rectifier potassium channel 2; IRK1; Kir2.1;
Gene ID	3759
mRNA Refseq	NM_000891
Protein Refseq	NP_000882
MIM	600681

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Uniprot ID	P63252
Chromosome Location	17q24.3
Pathway	Activation of G protein gated Potassium channels, organism-specific biosystem; Activation of GABAB receptors, organism-specific biosystem; Cholinergic synapse, organism-specific biosystem; Classical Kir channels, organism-specific biosystem; G protein gated Potassium channels, organism-specific biosystem;
Function	inward rectifier potassium channel activity; voltage-gated ion channel activity;

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