

Recombinant Human KCNJ5 293 Cell Lysate

Cat. No. KCNJ5-5044HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for potassium inwardly-rectifying channel, subfamily J, member 5 (KCNJ5) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name [KCNJ5 potassium inwardly-rectifying channel, subfamily J, member 5 \[Homo sapiens \]](#)

Official Symbol KCNJ5

Synonyms KCNJ5; potassium inwardly-rectifying channel, subfamily J, member 5; G protein-activated inward rectifier potassium channel 4; CIR; GIRK4; KATP1; Kir3.4; IRK-4; heart KATP channel; inward rectifier K⁺ channel KIR3.4; cardiac ATP-sensitive potassium channel; LQT13; KIR3.4;

Gene ID [3762](#)

mRNA Refseq [NM_000890](#)

Protein Refseq [NP_000881](#)

MIM [600734](#)

UniProt ID [P48544](#)

Chromosome Location 11q24

Pathway Activation of G protein gated Potassium channels, organism-specific biosystem; Activation of GABAB receptors, organism-specific biosystem; Calcium Regulation in

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the Cardiac Cell, organism-specific biosystem; Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem; G protein gated Potassium channels, organism-specific biosystem; GABA B receptor activation, organism-specific biosystem;

Function

G-protein activated inward rectifier potassium channel activity; contributes_to inward rectifier potassium channel activity; protein binding; voltage-gated ion channel activity;

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