

Recombinant Human KCNJ3 293 Cell Lysate

Cat. No. KCNJ3-5047HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for potassium inwardly-rectifying channel, subfamily J, member 3 (KCNJ3) 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

KCNJ3 potassium inwardly-rectifying channel, subfamily J, member 3 [Homo sapiens]

Official Symbol

KCNJ3

Synonyms

KCNJ3; potassium inwardly-rectifying channel, subfamily J, member 3; G protein-activated inward rectifier potassium channel 1; GIRK1; KGA; Kir3.1; GIRK-1; inward rectifier K⁺ channel KIR3.1; inward rectifier K(+) channel Kir3.1; potassium channel, inwardly rectifying subfamily J member 3; KIR3.1;

Gene ID

3760

mRNA Refseq

NM_002239

Protein Refseq

NP_002230

MIM

601534

UniProt ID

P48549

Chromosome Location

2q24.1

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; Cholinergic synapse, organism-specific biosystem; Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem; G Protein Signaling Pathways, 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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