

Recombinant Human KCNJ1 293 Cell Lysate

Cat. No. KCNJ1-5049HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for potassium inwardly-rectifying channel, subfamily J, member 1 (KCNJ1), transcript variant rom-k1 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 KCNJ1 potassium inwardly-rectifying channel, subfamily J, member 1 [Homo sapiens]

Official Symbol KCNJ1

Synonyms KCNJ1; potassium inwardly-rectifying channel, subfamily J, member 1; ATP-sensitive inward rectifier potassium channel 1; Kir1.1; ROMK1; inwardly rectifying K⁺ channel; inward rectifier K(+) channel Kir1.1; ATP-regulated potassium channel ROM-K; potassium channel, inwardly rectifying subfamily J member 1; ROMK; KIR1.1;

Gene ID 3758

mRNA Refseq NM_000220

Protein Refseq NP_000211

MIM 600359

UniProt ID P48048

Chromosome Location 11q24

Pathway Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem; Gastric acid

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secretion, organism-specific biosystem; Gastric acid secretion, conserved biosystem; Inwardly rectifying K⁺ channels, organism-specific biosystem; Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem;

Function

ATP binding; inward rectifier potassium channel activity; nucleotide binding; voltage-gated ion channel activity;

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