

## Recombinant Human KCNJ1 293 Cell Lysate

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

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Components</b>	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).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	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.
<b>Applications</b>	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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

<b>Gene Name</b>	KCNJ1 potassium inwardly-rectifying channel, subfamily J, member 1 [ Homo sapiens ]
<b>Official Symbol</b>	KCNJ1
<b>Synonyms</b>	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;
<b>Gene ID</b>	3758
<b>mRNA Refseq</b>	NM_000220
<b>Protein Refseq</b>	NP_000211
<b>MIM</b>	600359
<b>UniProt ID</b>	P48048
<b>Chromosome Location</b>	11q24
<b>Pathway</b>	Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem; Gastric acid secretion, organism-specific biosystem; Gastric acid secretion, conserved biosystem; Inwardly rectifying K+ channels, organism-specific biosystem; Neuronal System,

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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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