

Recombinant Human KCNJ4 293 Cell Lysate

Cat. No. KCNJ4-5045HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for potassium inwardly-rectifying channel, subfamily J, member 4 (KCNJ4), transcript variant 2 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

KCNJ4 potassium inwardly-rectifying channel, subfamily J, member 4 [Homo sapiens]

Official Symbol

KCNJ4

Synonyms

KCNJ4; potassium inwardly-rectifying channel, subfamily J, member 4; inward rectifier potassium channel 4; HIR; hIRK2; HRK1; IRK3; Kir2.3; inward rectifier K⁺ channel Kir2.3; inward rectifier K(+) channel Kir2.3; hippocampal inward rectifier potassium channel; potassium channel, inwardly rectifying subfamily J member 4; HIRK2; IRK-3; MGC142066; MGC142068;

Gene ID

3761

mRNA Refseq

NM_004981

Protein Refseq

NP_004972

MIM

600504

UniProt ID

P48050

Chromosome Location

22q13.1

Pathway

Activation of G protein gated Potassium channels, organism-specific biosystem;

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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; GABA B receptor activation, organism-specific biosystem; GABA receptor activation, organism-specific biosystem;

Function

PDZ domain binding; inward rectifier potassium channel activity; protein binding; voltage-gated ion channel activity;

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