

Recombinant Human KCNJ4 293 Cell Lysate

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

SPECIFICATION

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.
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

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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; Activation of GABAB receptors, organism-specific biosystem; Cholinergic synapse, organism-specific biosystem; Classical Kir channels, organism-specific biosystem; G

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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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