

Recombinant Human KCNJ10 Over-expression Cell Lysate

Cat. No. KCNJ10-2548HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	This gene encodes a member of the inward rectifier-type potassium channel family, characterized by having a greater tendency to allow potassium to flow into, rather than out of, a cell. The encoded protein may form a heterodimer with another potassium channel protein and may be responsible for the potassium buffering action of glial cells in the brain. Mutations in this gene have been associated with seizure susceptibility of common idiopathic generalized epilepsy syndromes.
Form	25mM Tris-HCl pH7.6, 150mM NaCl, 1% NP-40, 1mM EDTA, 1xProteinase inhibitor cocktail mix (Sigma), 1mM PMSF and 1mM Na3VO4
Molecular Mass	42.3 kDa
Usage	1 vial of 100 g gene specific transient over-expression cell lysate in RIPA buffer 1 vial of 100 g empty vector transfected control cell lysate in RIPA buffer 1 vial of 250ul 2xSDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% Glycerol, 0.002% Bromphenol blue, 100mM DTT)
Storage	Upon receiving, store the sample at -20 centigrade. Lysate samples are stable for 12 months from date of receipt when stored at -20 centigrade. Avoid repeated freeze-

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thaw cycles.

Lysate samples can be diluted with 2xSDS Sample Buffer provided. After dilution, the protein sample should be aliquoted and stored at -20 centigrade for long term storage. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

GENE INFORMATION

Gene Name

KCNJ10 potassium inwardly-rectifying channel, subfamily J, member 10 [Homo sapiens]

Official Symbol

KCNJ10

Synonyms

KCNJ10; potassium inwardly-rectifying channel, subfamily J, member 10; ATP-sensitive inward rectifier potassium channel 10; Kir1.2; Kir4.1; inward rectifier K+ channel KIR1.2; inward rectifier K(+) channel Kir1.2; ATP-dependent inwardly rectifying potassium channel Kir4.1; potassium channel, inwardly rectifying subfamily J member 10; glial ATP-dependent inwardly rectifying potassium channel KIR4.1; KIR1.2; KIR4.1; SESAME; BIRK-10; KCNJ13-PEN;

Gene ID

3766

mRNA Refseq

NM_002241

Protein Refseq

NP_002232

MIM

602208

UniProt ID

P78508

Chromosome Location

1q23.2

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Pathway

Activation of G protein gated Potassium channels, organism-specific biosystem;
Activation of GABAB receptors, organism-specific biosystem; G protein gated
Potassium channels, organism-specific biosystem; GABA B receptor activation,
organism-specific biosystem; GABA receptor activation, organism-specific biosystem;
Gastric acid secretion, organism-specific biosystem; Gastric acid secretion,
conserved biosystem;

Function

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

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