

Recombinant Human KCNB1 293 Cell Lysate

Cat. No. KCNB1-5071HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) 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

KCNB1 potassium voltage-gated channel, Shab-related subfamily, member 1 [Homo sapiens]

Official Symbol

KCNB1

Synonyms

KCNB1; potassium voltage-gated channel, Shab-related subfamily, member 1; potassium voltage-gated channel subfamily B member 1; Kv2.1; h-DRK1 K(+) channel; potassium channel protein DRK1; delayed rectifier potassium channel 1; delayed rectifier potassium channel Kv2.1; voltage-gated potassium channel subunit Kv2.1; DRK1; KV2.1; h-DRK1;

Gene ID

3745

mRNA Refseq

NM_004975

Protein Refseq

NP_004966

MIM

600397

UniProt ID

Q14721

Chromosome Location

20q13.2

Pathway

Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Integration of

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energy metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem; Regulation of Insulin Secretion, organism-specific biosystem; Regulation of Insulin Secretion by Glucagon-like Peptide-1, organism-specific biosystem;

Function

protein binding; voltage-gated ion channel activity; voltage-gated potassium channel activity;

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