

Recombinant Human KCNQ1 293 Cell Lysate

Cat. No. KCNQ1-5020HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for potassium voltage-gated channel, KQT-like subfamily, member 1 (KCNQ1), 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

KCNQ1 potassium voltage-gated channel, KQT-like subfamily, member 1 [Homo sapiens]

Official Symbol

KCNQ1

Synonyms

LQT; RWS; WRS; LQT1; SQT2; ATFB1; ATFB3; JLNS1; KCNA8; KCNA9; Kv1.9; Kv7.1; KVLQT1; potassium voltage-gated channel subfamily KQT member 1; slow delayed rectifier channel subunit; voltage-gated potassium channel subunit Kv7.1; kidney and cardiac voltage dependend K+ channel; IKs producing slow voltage-gated potassium channel subunit alpha KvLQT1

Gene ID

3784

mRNA Refseq

NM_181798

Protein Refseq

NP_861463

MIM

607542

UniProt ID

P51787

Chromosome Location

11p15.5

Pathway

Adrenergic signaling in cardiomyocytes, organism-specific biosystem; Pancreatic

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secretion, organism-specific biosystem; TNF-alpha/NF-kB Signaling Pathway,
organism-specific biosystem

Function

calmodulin binding; outward rectifier potassium channel activity; scaffold protein
binding

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