

Recombinant Human KCNQ3 293 Cell Lysate

Cat. No. KCNQ3-5018HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for potassium voltage-gated channel, KQT-like subfamily, member 3 (KCNQ3) 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

KCNQ3 potassium voltage-gated channel, KQT-like subfamily, member 3 [Homo sapiens]

Official Symbol

KCNQ3

Synonyms

KCNQ3; potassium voltage-gated channel, KQT-like subfamily, member 3; EBN2; potassium voltage-gated channel subfamily KQT member 3; Kv7.3; potassium channel subunit alpha KvLQT3; voltage-gated potassium channel subunit Kv7.3; potassium channel, voltage-gated, subfamily Q, member 3; BFNC2; KV7.3; FLJ37386; FLJ38392; DKFZp686C0248;

Gene ID

3786

mRNA Refseq

NM_001204824

Protein Refseq

NP_001191753

MIM

602232

UniProt ID

O43525

Chromosome Location

8q24

Pathway

Axon guidance, organism-specific biosystem; Cholinergic synapse, organism-specific

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biosystem; Developmental Biology, organism-specific biosystem; Interaction between L1 and Ankyrins, organism-specific biosystem; L1CAM interactions, organism-specific biosystem; Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem;

Function

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

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