

Recombinant Human KCNQ2 293 Cell Lysate

Cat. No. KCNQ2-5019HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for potassium voltage-gated channel, KQT-like subfamily, member 2 (KCNQ2), transcript variant 1 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

KCNQ2 potassium voltage-gated channel, KQT-like subfamily, member 2 [Homo sapiens]

Official Symbol

KCNQ2

Synonyms

KCNQ2; potassium voltage-gated channel, KQT-like subfamily, member 2; EBN, EBN1; potassium voltage-gated channel subfamily KQT member 2; BFNC; ENB1; HNNSPC; KCNA11; Kv7.2; KQT-like 2; voltage-gated potassium channel subunit Kv7.2; neuroblastoma-specific potassium channel protein; neuroblastoma-specific potassium channel subunit alpha KvLQT2; EBN; EBN1; BFNS1; EIEE7; KV7.2; KVEBN1;

Gene ID

3785

mRNA Refseq

NM_004518

Protein Refseq

NP_004509

MIM

602235

UniProt ID

O43526

Chromosome Location

20q13.33

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Pathway

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