

Recombinant Human KCNQ2 293 Cell Lysate

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

SPECIFICATION

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.
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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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; HNSPC; 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
Pathway	Axon guidance, organism-specific biosystem; Cholinergic synapse, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Interaction between

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA