

Recombinant Human KCNQ4 293 Cell Lysate

Cat. No. KCNQ4-5017HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for potassium voltage-gated channel, KQT-like subfamily, member 4 (KCNQ4), 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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	KCNQ4 potassium voltage-gated channel, KQT-like subfamily, member 4 [Homo sapiens]
Official Symbol	KCNQ4
Synonyms	KCNQ4; potassium voltage-gated channel, KQT-like subfamily, member 4; DFNA2; potassium voltage-gated channel subfamily KQT member 4; Kv7.4; potassium channel KQT-like 4; potassium channel subunit alpha KvLQT4; KV7.4; DFNA2A;
Gene ID	9132
mRNA Refseq	NM_004700
Protein Refseq	NP_004691
MIM	603537
UniProt ID	P56696
Chromosome Location	1p34
Pathway	Cholinergic synapse, organism-specific biosystem; Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem; Voltage gated Potassium channels, organism-specific biosystem;
Function	potassium channel activity; voltage-gated ion channel activity; voltage-gated

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potassium channel activity;

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