Recombinant Human KCNQ4 293 Cell Lysate

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

SPECIFICATION

Product Overview	
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.

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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	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;

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

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