Recombinant Human KCNK1 293 Cell Lysate

Cat. No. KCNK1-5041HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for potassium channel, subfamily K, member 1 (KCNK1) 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	KCNK1 potassium channel, subfamily K, member 1 [Homo sapiens]
Official Symbol	KCNK1
Synonyms	KCNK1; potassium channel, subfamily K, member 1; potassium channel subfamily K member 1; DPK; K2p1.1; TWIK 1; potassium channel KCNO1; inward rectifying potassium channel protein TWIK-1; potassium inwardly-rectifying channel, subfamily K, member 1; HOHO; K2P1; KCNO1; TWIK1; TWIK-1;
Gene ID	3775
mRNA Refseq	NM_002245
Protein Refseq	NP_002236
MIM	601745
UniProt ID	O00180
Chromosome Location	1q42-q43
Pathway	Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem; Tandem of pore domain in a weak inwardly rectifying K+ channels (TWIK), organism-specific biosystem; Tandem pore domain potassium channels,

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	organism-specific biosystem;
Function	inward rectifier potassium channel activity; ion channel activity; potassium channel activity; voltage-gated ion channel activity;

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