

## Recombinant Human KCNK2 293 Cell Lysate

**Cat. No.** KCNK2-5036HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for potassium channel, subfamily K, member 2 (KCNK2), 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.
<b>Components</b>	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).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	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.
<b>Applications</b>	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

<b>Gene Name</b>	KCNK2 potassium channel, subfamily K, member 2 [ Homo sapiens ]
<b>Official Symbol</b>	KCNK2
<b>Synonyms</b>	KCNK2; potassium channel, subfamily K, member 2; potassium channel subfamily K member 2; K2p2.1; TREK 1; K2P2.1 potassium channel; TREK-1 K(+) channel subunit; two-pore potassium channel 1; TWIK-related potassium channel 1; two pore potassium channel TPKC1; two pore domain potassium channel TREK-1; tandem-pore-domain potassium channel TREK-1; outward rectifying potassium channel protein TREK-1; potassium inwardly-rectifying channel, subfamily K, member 2; TREK; TPKC1; TREK1; TREK-1; hTREK-1c; hTREK-1e; MGC126742; MGC126744;
<b>Gene ID</b>	3776
<b>mRNA Refseq</b>	NM_001017424
<b>Protein Refseq</b>	NP_001017424
<b>MIM</b>	603219
<b>UniProt ID</b>	O95069
<b>Chromosome Location</b>	1q41
<b>Pathway</b>	Gastric acid secretion, organism-specific biosystem; Gastric acid secretion, conserved biosystem; Neuronal System, organism-specific biosystem; Potassium

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Channels, organism-specific biosystem; TWIK related potassium channel (TREK), organism-specific biosystem; Tandem pore domain potassium channels, organism-specific biosystem;

**Function**

ion channel activity; outward rectifier potassium channel activity; potassium channel activity; potassium channel activity; voltage-gated ion channel activity;

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