Recombinant Human KCNK2 293 Cell Lysate

Cat. No. KCNK2-5035HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for potassium channel, subfamily K, member 2 (KCNK2), transcript variant 2 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	KCNK2 potassium channel, subfamily K, member 2 [Homo sapiens]
Official Symbol	KCNK2
Synonyms	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;
Gene ID	3776
mRNA Refseq	NM_014217
Protein Refseq	NP_055032
MIM	603219
UniProt ID	O95069
Chromosome Location	1q41
Pathway	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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