

Recombinant Human KCNK2 293 Cell Lysate

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

SPECIFICATION

Product Overview

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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 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

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Pathway

Gastric acid secretion, organism-specific biosystem; Gastric acid secretion, conserved biosystem; Neuronal System, organism-specific biosystem; Potassium 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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