

Recombinant Human KCNH2 293 Cell Lysate

Cat. No. KCNH2-5059HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source HEK293

Description

Antigen standard for potassium voltage-gated channel, subfamily H (eag-related), member 2 (KCNH2), 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.

 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	KCNH2 potassium voltage-gated channel, subfamily H (eag-related), member 2 [Homo sapiens]
Official Symbol	KCNH2
Synonyms	KCNH2; potassium voltage-gated channel, subfamily H (eag-related), member 2; LQT2; potassium voltage-gated channel subfamily H member 2; erg1; HERG; Kv11.1; ERG-1; H-ERG; hERG-1; eag homolog; eag-related protein 1; ether-a-go-go-related protein 1; ether-a-go-go-related gene potassium channel 1; voltage-gated potassium channel subunit Kv11.1; ether-a-go-go-related potassium channel protein; ERG1; SQT1; HERG1;
Gene ID	3757
mRNA Refseq	NM_000238
Protein Refseq	NP_000229
MIM	152427
UniProt ID	Q12809
Chromosome Location	7q36.1

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Pathway	Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem; SIDS Susceptibility Pathways, organism-specific biosystem; Voltage gated Potassium channels, organism-specific biosystem;
Function	delayed rectifier potassium channel activity; inward rectifier potassium channel activity; two-component sensor activity; voltage-gated ion channel activity;

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