

Recombinant Human KCNH2 293 Cell Lysate

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

SPECIFICATION

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.
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	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
Pathway	Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem; SIDS Susceptibility Pathways, organism-specific biosystem;

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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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