Recombinant Human KCNH1 293 Cell Lysate

Cat. No. KCNH1-5060HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for potassium voltage-gated channel, subfamily H (eag-related), member 1 (KCNH1), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid (True ORF cDNA clone RC218681, OriGene Technologies, Inc.) 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

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	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	KCNH1 potassium voltage-gated channel, subfamily H (eag-related), member 1 [Homo sapiens]
Official Symbol	KCNH1
Synonyms	KCNH1; potassium voltage-gated channel, subfamily H (eag-related), member 1; potassium voltage-gated channel subfamily H member 1; eag; eag1; h eag; Kv10.1; hEAG1; EAG channel 1; ether-a-go-go potassium channel 1; ether-a-go-go, Drosophila, homolog of; voltage-gated potassium channel subunit Kv10.1; EAG; EAG1; h-eag; MGC142269;
Gene ID	3756
mRNA Refseq	NM_002238
Protein Refseq	NP_002229
MIM	603305
UniProt ID	O95259
Chromosome Location	1q32.2
Pathway	Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem; Voltage gated Potassium channels, organism-specific biosystem;

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Function	calmodulin binding; delayed rectifier potassium channel activity; protein binding; two-component sensor activity; voltage-gated ion channel activity;

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