Recombinant Human KCNA1 293 Cell Lysate

Cat. No. KCNA1-5079HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia) (KCNA1) 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.

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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	KCNA1 potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia) [Homo sapiens]
Official Symbol	KCNA1
Synonyms	KCNA1; potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia); AEMK; potassium voltage-gated channel subfamily A member 1; HUK1; Kv1.1; MBK1; RBK1; voltage-gated K(+) channel HuKI; voltage-gated potassium channel HBK1; voltage-gated potassium channel subunit Kv1.1; EA1; MK1; HBK1; KV1.1; MGC126782; MGC138385;
Gene ID	3736
mRNA Refseq	NM_000217
Protein Refseq	NP_000208
MIM	176260
UniProt ID	Q09470
Chromosome Location	12p13
Pathway	Neuronal System, organism-specific biosystem; Potassium Channels, organism-

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	specific biosystem; Voltage gated Potassium channels, organism-specific biosystem;
Function	delayed rectifier potassium channel activity; potassium channel activity; potassium ion transmembrane transporter activity; voltage-gated ion channel activity;

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