

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 HuK1; 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;