

Recombinant Human KCNMA1 293 Cell Lysate

Cat. No. KCNMA1-5028HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source HEK293

Description

Antigen standard for potassium large conductance calcium-activated channel, subfamily M, alpha member 1 (KCNMA1), transcript variant 2 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	KCNMA1 potassium large conductance calcium-activated channel, subfamily M, alpha member 1 [Homo sapiens]
Official Symbol	KCNMA1
Synonyms	KCNMA1; potassium large conductance calcium-activated channel, subfamily M, alpha member 1; SLO; calcium-activated potassium channel subunit alpha-1; BK channel alpha subunit; KCa1.1; mSLO1; hSlo; k(VCA)alpha; slo homolog; slowpoke homolog; BKCA alpha subunit; maxi-K channel HSLO; stretch-activated Kca channel; calcium-activated potassium channel, subfamily M subunit alpha-1; BKTm; SLO1; MaxiK; SAKCA; SLO-ALPHA; bA205K10.1; MGC71881; DKFZp686K1437;
Gene ID	3778
mRNA Refseq	NM_001014797
Protein Refseq	NP_001014797
MIM	600150
UniProt ID	Q12791
Chromosome Location	10q22

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Pathway

Ca²⁺ activated K⁺ channels, organism-specific biosystem; Hemostasis, organism-specific biosystem; Neuronal System, organism-specific biosystem; Nitric oxide stimulates guanylate cyclase, organism-specific biosystem; Pancreatic secretion, organism-specific biosystem; Pancreatic secretion, conserved biosystem; Platelet homeostasis, organism-specific biosystem;

Function

actin binding; calcium-activated potassium channel activity; large conductance calcium-activated potassium channel activity; large conductance calcium-activated potassium channel activity; metal ion binding; nucleotide binding; potassium channel activity; protein binding; voltage-gated ion channel activity; voltage-gated potassium channel activity;