

Recombinant Human KCNMA1 293 Cell Lysate

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

SPECIFICATION

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.
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

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

Pathway

Ca²⁺ activated K⁺ channels, organism-specific biosystem; Hemostasis, organism-

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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;

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