

Recombinant Human KCNMB4 293 Cell Lysate

Cat. No. KCNMB4-5022HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for potassium large conductance calcium-activated channel, subfamily M, beta member 4 (KCNMB4) 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 KCNMB4 potassium large conductance calcium-activated channel, subfamily M, beta member 4 [Homo sapiens]

Official Symbol KCNMB4

Synonyms KCNMB4; potassium large conductance calcium-activated channel, subfamily M, beta member 4; calcium-activated potassium channel subunit beta-4; hbeta4; BKbeta4; slo-beta-4; k(VCA)beta-4; BK channel subunit beta-4; maxi K channel subunit beta-4; charybdotoxin receptor subunit beta-4; calcium-activated potassium channel, subfamily M subunit beta-4; large conductance calcium-dependent potassium ion channel beta 4 subunit;

Gene ID 27345

mRNA Refseq NM_014505

Protein Refseq NP_055320

MIM 605223

UniProt ID Q86W47

Chromosome Location 12q15

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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; Platelet homeostasis, organism-specific biosystem; Potassium Channels, organism-specific biosystem; Vascular smooth muscle contraction, organism-specific biosystem;

Function

calcium-activated potassium channel activity; ion channel activity; potassium channel activity; protein binding;

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