Recombinant Human KCNMB2 293 Cell Lysate

Cat. No. KCNMB2-5027HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for potassium large conductance calcium-activated channel, subfamily M, beta member 2 (KCNMB2), 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	KCNMB2 potassium large conductance calcium-activated channel, subfamily M, beta member 2 [Homo sapiens]
Official Symbol	KCNMB2
Synonyms	KCNMB2; potassium large conductance calcium-activated channel, subfamily M, beta member 2; calcium-activated potassium channel subunit beta-2; hbeta2; hbeta3; BKbeta2; hCG1646471; slo-beta-2; k(VCA)beta-2; BK channel subunit beta-2; MaxiK channel beta 2 subunit; maxi K channel subunit beta-2; charybdotoxin receptor subunit beta-2; large-conductance Ca2+-activated K+ channel beta2 subunit; calcium-activated potassium channel, subfamily M subunit beta-2; large conductance calcium-activated potassium channel beta 2 subunit; MGC22431;
Gene ID	10242
mRNA Refseq	NM_005832
Protein Refseq	NP_005823
MIM	605214
UniProt ID	Q9Y691
Chromosome Location	3q26.32

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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 inhibitor activity; potassium channel activity; potassium channel regulator activity;

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