Recombinant Human CACNB4 293 Cell Lysate

Cat. No. CACNB4-7902HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for calcium channel, voltage-dependent, beta 4 subunit (CACNB4), 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 the mixture for 10 min before loading (for membrane protein lysates, incubate the

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	mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	CACNB4 calcium channel,voltage-dependent,beta 4 subunit [Homo sapiens]
Official Symbol	CACNB4
Synonyms	CACNB4;Cavβ4 Calcium Channel;EA5;EJM;calcium channel,voltage-dependent,beta 4 subunit;CAB4;EIG9;EJM4;EJM6;CACNLB4;voltage-dependent L-type calcium channel subunit beta-4;calcium channel voltage-dependent subunit beta 4;dihydropyridine-sensitive L-type,cal
Gene ID	785
mRNA Refseq	NM_000726
Protein Refseq	NP_000717
MIM	601949
UniProt ID	O00305
Chromosome Location	2q22-q23
Pathway	rrhythmogenic right ventricular cardiomyopathy (ARVC);Axon guidance;Cardiac muscle contraction;Depolarization of the Presynaptic Terminal Triggers the Opening of Calcium Channels;Developmental Biology;Dilated cardiomyopathy;Hypertrophic cardiomyopathy (HCM)

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Function	contributes_to high voltage-gated calcium channel activity;protein binding;contributes_to voltage-gated calcium channel activity;voltage-gated ion channel activity

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