

Recombinant Human CACNB4 293 Cell Lysate

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

SPECIFICATION

Product Overview

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.

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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

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

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cardiomyopathy (HCM)

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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