

Recombinant Human CACNB1 293 Cell Lysate

Cat. No. CACNB1-7903HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for calcium channel, voltage-dependent, beta 1 subunit (CACNB1), 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	CACNB1 calcium channel, voltage-dependent, beta 1 subunit [Homo sapiens]
Official Symbol	CACNB1
Synonyms	CACNB1; calcium channel, voltage-dependent, beta 1 subunit; CACNLB1; voltage-dependent L-type calcium channel subunit beta-1; calcium channel, L type, beta 1 polypeptide; calcium channel voltage-dependent subunit beta 1; dihydropyridine-sensitive L-type, calcium channel beta-1 subunit; CAB1; CCHLB1; MGC41896;
Gene ID	782
mRNA Refseq	NM_000723
Protein Refseq	NP_000714
MIM	114207
UniProt ID	Q02641
Chromosome Location	17q21-q22
Pathway	Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Axon guidance, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Depolarization

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of the Presynaptic Terminal Triggers the Opening of Calcium Channels, organism-specific biosystem;

Function

high voltage-gated calcium channel activity; voltage-gated calcium channel activity; voltage-gated ion channel activity;

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