Recombinant Human CACNB1 293 Cell Lysate

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

SPECIFICATION

Product Overview	
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.

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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	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

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	Cardiac Cell, organism-specific biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Depolarization 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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