

Recombinant Human CACNA2D3 293 Cell Lysate

Cat. No. CACNA2D3-7904HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for calcium channel, voltage-dependent, alpha 2/delta subunit 3 (CACNA2D3) 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 CACNA2D3 calcium channel, voltage-dependent, alpha 2/delta subunit 3 [Homo sapiens]

Official Symbol CACNA2D3

Synonyms CACNA2D3; calcium channel, voltage-dependent, alpha 2/delta subunit 3; voltage-dependent calcium channel subunit alpha-2/delta-3; HSA272268; calcium channel alpha2-delta3 subunit; voltage-gated calcium channel subunit alpha-2/delta-3; calcium channel, voltage-dependent, alpha 2/delta 3 subunit;

Gene ID 55799

mRNA Refseq NM_018398

Protein Refseq NP_060868

MIM 606399

UniProt ID Q8IZS8

Chromosome Location 3p21.1

Pathway Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved

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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; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem;

Function

metal ion binding; voltage-gated calcium channel activity; voltage-gated ion channel activity;

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