Recombinant Human CACNA2D3 293 Cell Lysate

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

SPECIFICATION

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.
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	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 biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Depolarization of the Presynaptic Terminal

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	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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