Recombinant Human CACNG2 293 Cell Lysate

Cat. No. CACNG2-7901HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for calcium channel, voltage-dependent, gamma subunit 2 (CACNG2) 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.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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	CACNG2 calcium channel, voltage-dependent, gamma subunit 2 [Homo sapiens]
Official Symbol	CACNG2
Synonyms	CACNG2; calcium channel, voltage-dependent, gamma subunit 2; voltage-dependent calcium channel gamma-2 subunit; MGC138502; MGC138504; stargazin; TARP gamma-2; transmembrane AMPAR regulatory protein gamma-2; neuronal voltage-gated calcium channel gamma-2 subunit; MRD10; FLJ41437;
Gene ID	10369
mRNA Refseq	NM_006078
Protein Refseq	NP_006069
MIM	602911
UniProt ID	Q9Y698
Chromosome Location	22q13.1
Pathway	Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA