

Product Name: Cacna2d1 Rabbit Polyclonal Antibody**Catalog #: APRab07818**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:5000-1:20000
Molecular Weight	123kDa

Antigen Information

Gene Name	CACNA2D1
Alternative Names	CACNA2D1; CACNL2A; CCHL2A; MHS3; Voltage-dependent calcium channel subunit alpha-2/delta-1; Voltage-gated calcium channel subunit alpha-2/delta-1
Gene ID	781.0
SwissProt ID	P54289
Immunogen	The antiserum was produced against synthesized peptide derived from human Cacna2d1. AA range:90-139

Background

calcium voltage-gated channel auxiliary subunit alpha2delta 1(CACNA2D1) Homo sapiens The preproprotein encoded by this gene is cleaved into multiple chains that comprise the alpha-2 and delta subunits of the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization. Mutations in this gene can cause cardiac deficiencies, including Brugada syndrome and short QT syndrome. Alternate splicing results in multiple transcript variants, some of which may lack the delta subunit portion. [provided by RefSeq, Nov 2014],domain:The MIDAS-like motif in the VWFA domain binds divalent metal cations and is required to promote trafficking of the alpha-1 (CACNA1) subunit to the plasma membrane by an integrin-like switch.,function:The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel. Plays an important role in excitation-contraction coupling.,miscellaneous:Binds gabapentin, an antiepileptic drug.,PTM:Proteolytically processed into subunits alpha-2-1 and delta-1 that are disulfide-linked.,similarity:Belongs to the calcium channel subunit alpha-2/delta family.,similarity:Contains 1 cache domain.,similarity:Contains 1 VWFA domain.,subunit:Dimer formed of alpha-2-1 and delta-1 chains; disulfide-linked. Voltage-dependent calcium channels are multisubunit complexes, consisting of alpha-1 (CACNA1), alpha-2 (CACNA2D), beta (CACNB) and delta (CACNA2D) subunits in a 1:1:1:1 ratio.,tissue specificity:Central nervous system, skeletal muscle and aorta tissues.,

Research Area

MAPK_ERK_Growth;MAPK_G_Protein;Cardiac muscle contraction;Hypertrophic cardiomyopathy (HCM);Arrhythmogenic right ventricular cardiomyopathy (ARVC);Dilated cardiomyopathy;

Image Data



Western blot analysis of lysate from NIH/3T3 cells, using Cacna2d1 antibody.