Product Name: Cacna2d4 Rabbit Polyclonal Antibody

Catalog #: APRab07819



Summary

Cacna2d4 Rabbit Polyclonal Antibody **Production Name**

Description Rabbit Polyclonal Antibody

Host Rabbit **Application** WB, ELISA

Reactivity Human, Mouse, Rat

Performance

Conjugation Unconjugated Modification Unmodified

Isotype lgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name CACNA2D4

CACNA2D4; Voltage-dependent calcium channel subunit alpha-2/delta-4; Voltage-**Alternative Names**

gated calcium channel subunit alpha-2/delta-4

93589.0 Gene ID

Q7Z3S7.The antiserum was produced against synthesized peptide derived from human SwissProt ID

CACNA2D4. AA range:548-597

Application

Dilution Ratio WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.

Molecular Weight 130kD

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Background

calcium voltage-gated channel auxiliary subunit alpha2delta 4(CACNA2D4) Homo sapiens This gene encodes a member of the alpha-2/delta subunit family, a protein in the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. Various versions of each of these subunits exist, either expressed from similar genes or the result of alternative splicing. Research on a highly similar protein in rabbit suggests the protein described in this record is cleaved into alpha-2 and delta subunits. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq, Jul 2008], disease: Defects in CACNA2D4 are the cause of retinal cone dystrophy 4 (RCD4) [MIM:610478]. RCD4 is characterized by minimal symptoms except for slowly progressive reduction in visual acuity.,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 integrinlike switch., function: The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel, miscellaneous: In contrast to CACNA2D1 and CACNA2D2, it does not bind gabapentin, an antiepileptic drug., PTM: May be proteolytically processed into subunits alpha-2-4 and delta-4 that are disulfide-linked. It is however unclear whether such cleavage really takes place in vivo and has a functional role., 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-2-2 and delta-2 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 (Probable). Interacts with CACNA1C and CACNB3., tissue specificity: Predominantly expressed in certain types of endocrine cells. Present in the Paneth cells of the small intestine. Also present in the erythroblasts in the fetal liver, in the cells of the zona reticularis of the adrenal gland and in the basophiles of the pituitary. Present at low level in some brain regions such as the cerebellum (at protein level).,

Research Area

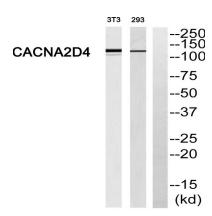
MAPK_ERK_Growth;MAPK_G_Protein;Cardiac muscle contraction;Hypertrophic cardiomyopathy (HCM);Arrhythmogenic right ventricular cardiomyopathy (ARVC);Dilated cardiomyopathy;

Image Data

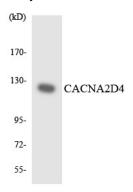
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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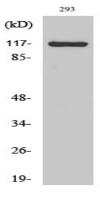




Western blot analysis of CACNA2D4 Antibody. The lane on the right is blocked with the CACNA2D4 peptide.



Western blot analysis of the lysates from COLO205 cells using CACNA2D4 antibody.



Western Blot analysis of various cells using Cacna2d4 Polyclonal Antibody

Note

For research use only.