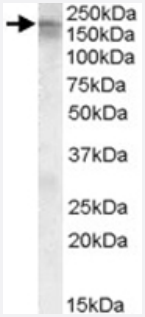
CACNA1C polyclonal antibody

Catalog # PAB11506 Size 100 ug

Applications



Western Blot (Tissue lysate)

CACNA1C polyclonal antibody (Cat # PAB11506) (0.5 ug/mL) staining of human heart lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of CACNA1C.
Immunogen	A synthetic peptide corresponding to human CACNA1C.
Sequence	C-RARGRPSEEELQD
Host	Goat
Theoretical MW (kDa)	240
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:16000) Western Blot (0.5-1.5 ug/mL) The optimal working dilution should be determined by the end user.

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Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Tissue lysate)

  CACNA1C polyclonal antibody (Cat # PAB11506) (0.5 ug/mL) staining of human heart lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Gene Info — CACNA1C

Entrez GeneID	775
Protein Accession#	NP_000710.5.
Gene Name	CACNA1C
Gene Alias	CACH2, CACN2, CACNL1A1, CCHL1A1, CaV1.2, MGC120730, TS
Gene Description	calcium channel, voltage-dependent, L type, alpha 1C subunit
Omim ID	114205 601005
Gene Ontology	Hyperlink
Gene Summary	This gene encodes an alpha-1 subunit of a voltage-dependent calcium channel. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization. The alpha-1 subunit c onsists of 24 transmembrane segments and forms the pore through which ions pass into the cell. The calcium channel consists of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits i n a 1:1:1:1 ratio. There are multiple isoforms of each of these proteins, either encoded by different genes or the result of alternative splicing of transcripts. The protein encoded by this gene binds to and is inhibited by dihydropyridine. Alternative splicing results in many transcript variants encodin g different proteins. [provided by RefSeq
Other Designations	DHPR, alpha-1 subunit|calcium channel, L type, alpha 1 polypeptide, isoform 1, cardic muscle|cal cium channel, cardic dihydropyridine-sensitive, alpha-1 subunit|voltage-gated L-type calcium chan nel Cav1.2 alpha 1 subunit, splice variant 10*|voltage-gated c

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Publication Reference

- Calpastatin binds to a calmodulin-binding site of cardiac Cav1.2 Ca2+ channels.

  Saud ZA, Minobe E, Wang WY, Han DY, Horiuchi M, Hao LY, Kameyama M.

  Biochemical and Biophysical Research Communications 2007 Dec; 364(2):372.

Pathway

- Arrhythmogenic right ventricular cardiomyopathy (ARVC)
- Calcium signaling pathway
- Cardiac muscle contraction
- GnRH signaling pathway
- Hypertrophic cardiomyopathy (HCM)
- Long-term potentiation
- MAPK signaling pathway
- Type II diabetes mellitus
- Vascular smooth muscle contraction

Disease

- Anxiety Disorders
- Bipolar Disorder
- Cardiovascular Diseases
- Depressive Disorder
- Diabetes Mellitus
- Dysthymic Disorder
- Edema
- Genetic Predisposition to Disease

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- Heart Diseases
- Hyperparathyroidism
- Hypertension
- Inflammation
- Language Tests
- Myocardial Infarction
- Narcolepsy
- Schizophrenia
- Task Performance and Analysis
- Tobacco Use Disorder

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