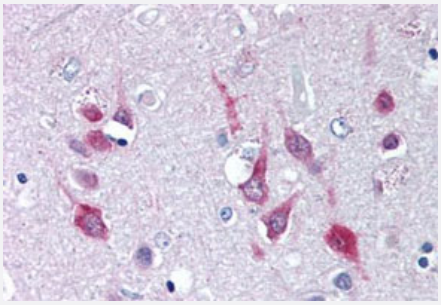
CACNA1C polyclonal antibody

Catalog # PAB27744 Size 50 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) of human brain, cortex with CACNA1C polyclonal antibody (Cat # PAB27744). Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CACNA1C.
Immunogen	A synthetic peptide corresponding to 16 amino acid at C-terminus of human CACNA1C.
Host	Rabbit
Reactivity	Human
Specificity	BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Form	Liquid
Purification	Immunoaffinity chromatography
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -80°C. Aliquot to avoid repeated freezing and thawing.

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Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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Gene Info — CACNA1C

Entrez GeneID	775
Protein Accession#	Q13936
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

Pathway

- Arrhythmogenic right ventricular cardiomyopathy (ARVC)
- Calcium signaling pathway

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

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- Tobacco Use Disorder

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