

产品名称: T-type Ca++ CP α 1H Rabbit Polyclonal Antibody
产品货号: AP Rab19413



产品概述 (Summary)

产品名称 (Production Name)	T-type Ca++ CP α 1H Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB, ELISA
种属反应性 (Reactivity)	Human, Mouse, Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	CACNA1H CACNA1H; Voltage-dependent T-type calcium channel subunit α -1H;
别名 (Alternative Names)	Low-voltage-activated calcium channel α 1.3.2 subunit; Voltage-gated calcium channel subunit α Cav3.2
基因 ID (Gene ID)	8912.0
蛋白 ID (SwissProt ID)	O95180. The antiserum was produced against synthesized peptide derived from human CACNA1H. AA range: 462-511

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000, ELISA 1:5000-1:20000
蛋白分子量 (Molecular Weight)	259kDa

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研究背景 (Background)

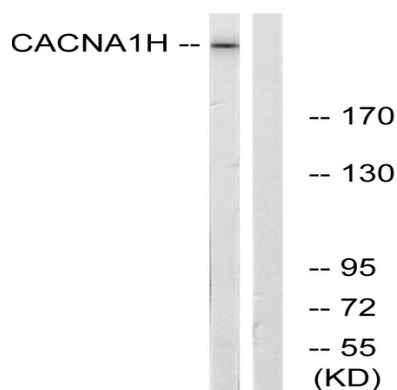
calcium voltage-gated channel subunit alpha1 H(CACNA1H) Homo sapiens This gene encodes a T-type member of the alpha-1 subunit family, a protein in the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. The alpha-1 subunit has 24 transmembrane segments and forms the pore through which ions pass into the cell. There are multiple isoforms of each of the proteins in the complex, either encoded by different genes or the result of alternative splicing of transcripts. Alternate transcriptional splice variants, encoding different isoforms, have been characterized for the gene described here. Studies suggest certain mutations in this gene lead to childhood absence epilepsy (CAE). [provided by RefSeq, Jul 2008],disease:Defects in CACNA1H are a cause of susceptibility to idiopathic generalized epilepsy type 6 (IGE6) [MIM:611942]. IGE is characterized by recurring generalized seizures in the absence of detectable brain lesions and/or metabolic abnormalities. Generalized seizures arise diffusely and simultaneously from both hemispheres of the brain. IGE6 is a polygenic and multifactorial disease.,domain:Each of the four internal repeats contains five hydrophobic transmembrane segments (S1, S2, S3, S5, S6) and one positively charged transmembrane segment (S4). S4 segments probably represent the voltage-sensor and are characterized by a series of positively charged amino acids at every third position.,function:Voltage-sensitive calcium channels (VSCC) mediate the entry of calcium ions into excitable cells and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. The isoform alpha-1H gives rise to T-type calcium currents. T-type calcium channels belong to the "low-voltage activated (LVA)" group and are strongly blocked by nickel and mibefradil. A particularity of this type of channels is an opening at quite negative potentials, and a voltage-dependent inactivation. T-type channels serve pacemaking functions in both central neurons and cardiac nodal cells and support calcium signaling in secretory cells and vascular smooth muscle. They may also be involved in the modulation of firing patterns of neurons which is important for information processing as well as in cell growth processes.,PTM:In response to raising of intracellular calcium, the T-type channels are activated by CaM-kinase II.,similarity:Belongs to the calcium channel alpha-1 subunit (TC 1.A.1.11) family.,tissue specificity:Expressed in kidney, liver, heart, brain. Isoform 2 seems to be testis-specific.,

研究领域 (Research Area)

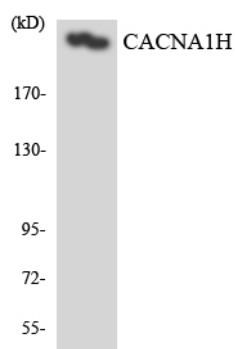
MAPK_ERK_Growth;MAPK_G_Protein;Calcium;

图片 (Image Data)

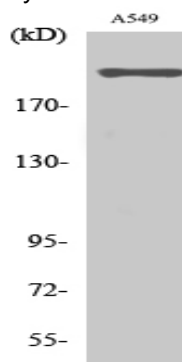
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Western blot analysis of lysates from A549 cells, using CACNA1H Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HeLa cells using CACNA1H antibody.



Western Blot analysis of various cells using T-type Ca⁺⁺ CP α 1H Polyclonal Antibody. Secondary antibody was diluted at 1:20000

注意事项 (Note)

For research use only .