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Rabbit Anti-CACNB2 antibody

SL2996R

Product Name:	CACNB2
Chinese Name:	L-型电压依赖型钙通道β抗体
Alias:	Voltage-dependent L-type calcium channel subunit beta-2; CAB2; Cacnb2; Cacnlb2; VDCC-L Beta; Calcium channel voltage-dependent subunit beta 2; calcium channel, voltage-dependent, beta 2 subunit; calcium channel beta 2c subunit; calcium channel L-type beta 2 subunit; CACB2_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	74kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CACNB2:551-655/655
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes a subunit of a voltage-dependent calcium channel protein that is a member of the voltage-gated calcium channel superfamily. The gene product was originally identified as an antigen target in Lambert-Eaton myasthenic syndrome, an autoimmune disorder. Mutations in this gene are associated with Brugada syndrome.

Alternatively spliced variants encoding different isoforms have been described. [provided by RefSeq, Feb 2013]

Function:
The beta subunit of voltage-dependent calcium channels contributes to the function of the calcium channel by increasing peak calcium current, shifting the voltage dependencies of activation and inactivation, modulating G protein inhibition and controlling the alpha-1 subunit membrane targeting.

Subunit:
The L-type calcium channel is composed of four subunits: alpha-1, alpha-2, beta and gamma. Interacts with RRAD. Interaction with RRAD regulates the trafficking of CACNA1C to the cell membrane.

Subcellular Location:
Cell membrane, sarcolemma; Peripheral membrane protein; Cytoplasmic side.

Similarity:
Belongs to the calcium channel beta subunit family.
Contains 1 SH3 domain.

SWISS:
Q08289

Gene ID:
783

Database links:

Entrez Gene: 783Human

Entrez Gene: 12296Mouse

Entrez Gene: 116600Rat

Omim: 600003Human

SwissProt: Q08289Human

SwissProt: Q8CC27Mouse

SwissProt: Q8VGC3Rat

Unigene: 59093Human

Unigene: 313930Mouse

Unigene: 10739Rat

	Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. 电压依赖性钙通道(VDCC)是生物体内一大类钙Channel protein,随着膜电位的改变而出现通道的开放、关闭和失活,调节细胞内Ca2+浓度,最终产生生物学效应.其亚型结构各异,VDCC β亚基具有调节其通道活性的作用,VDCC存在的普遍性决定了其作用的广泛性.在胰腺、心、脑、肾上腺、视网膜及神经等组织器官均有不同程度的分布.