10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CACNB2 Rabbit pAb

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Catalog # AP58070

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q08289
Predicted	Human, Mouse, Rat, Chicken, Dog, Horse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	73581
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CACNB2
Epitope Specificity	551-655/655
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane, sarcolemma; Peripheral membrane protein; Cytoplasmic side.
SIMILARITY	Belongs to the calcium channel beta subunit family.Contains 1 SH3 domain.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]

Additional Information

Gene ID	783
Other Names	Voltage-dependent L-type calcium channel subunit beta-2, CAB2, Calcium channel voltage-dependent subunit beta 2, Lambert-Eaton myasthenic syndrome antigen B, MYSB, CACNB2, CACNLB2, MYSB
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	CACNB2
Synonyms	CACNLB2, MYSB
Function	Beta subunit of voltage-dependent calcium channels which contributes to the function of the calcium channel by increasing peak calcium current (By similarity). Plays a role in shifting voltage dependencies of activation and inactivation of the channel (By similarity). May modulate G protein inhibition (By similarity). May contribute to beta-adrenergic augmentation of Ca(2+) influx in cardiomyocytes, thereby regulating increases in heart rate and contractile force (PubMed:36424916). Involved in membrane targeting of the alpha-1 subunit CACNA1C (PubMed:17525370).
Cellular Location	Cell membrane, sarcolemma; Peripheral membrane protein; Cytoplasmic side
Tissue Location	Expressed in all tissues.

Background

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]