

CACNB2 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58070**Specification**

CACNB2 Polyclonal Antibody - Product Information

| | |
|--------------------------------|--|
| Application | IHC-P, IHC-F, IF, E |
| Primary Accession | Q08289 |
| Reactivity | Rat, Dog |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 74 KDa |
| 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]

CACNB2 Polyclonal Antibody - 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 ~ ~ N/A
IHC-F ~ ~ N/A
IF ~ ~ 1:50 ~ 200
E ~ ~ N/A

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.

CACNB2 Polyclonal Antibody - 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](http://www.uniprot.org/citations/36424916)). Involved in membrane targeting of the alpha-1 subunit CACNA1C (PubMed: [17525370](http://www.uniprot.org/citations/17525370)).

Cellular Location

Cell membrane, sarcolemma; Peripheral membrane protein; Cytoplasmic side

Tissue Location

Expressed in all tissues.

CACNB2 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CACNB2 Polyclonal Antibody - Images