

**CACNB1 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16144b****Specification**

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**CACNB1 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q02641](#)**CACNB1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 782**Other Names**

Voltage-dependent L-type calcium channel subunit beta-1, CAB1, Calcium channel voltage-dependent subunit beta 1, CACNB1, CACNLB1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CACNB1 Antibody (C-term) Blocking Peptide - Protein Information****Name** CACNB1**Synonyms** CACNLB1**Function**

Regulatory subunit of L-type calcium channels (PubMed:<a href="http://www.uniprot.org/citations/1309651" target="\_blank">1309651</a>, PubMed:<a href="http://www.uniprot.org/citations/8107964" target="\_blank">8107964</a>, PubMed:<a href="http://www.uniprot.org/citations/15615847" target="\_blank">15615847</a>). Regulates the activity of L-type calcium channels that contain CACNA1A as pore-forming subunit (By similarity). Regulates the activity of L-type calcium channels that contain CACNA1C as pore-forming subunit and increases the presence of the channel complex at the cell membrane (PubMed:<a href="http://www.uniprot.org/citations/15615847" target="\_blank">15615847</a>). Required for functional expression L-type calcium channels that contain CACNA1D as pore-forming subunit (PubMed:<a href="http://www.uniprot.org/citations/1309651" target="\_blank">1309651</a>). Regulates the activity of L-type calcium channels that contain CACNA1B as pore-forming subunit (PubMed:<a href="http://www.uniprot.org/citations/8107964" target="\_blank">8107964</a>).

**Cellular Location**

Cell membrane, sarcolemma; Peripheral membrane protein {ECO:0000250|UniProtKB:P19517}; Cytoplasmic side {ECO:0000250|UniProtKB:P19517}. Cell membrane; Peripheral membrane protein

**Tissue Location**

Detected in heart ventricle (at protein level) (PubMed:15615847). Isoform 1 and isoform 3 are expressed in brain, heart, spleen, central nervous system and neuroblastoma cells. Isoform 2 is expressed in skeletal muscle.

**CACNB1 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**CACNB1 Antibody (C-term) Blocking Peptide - Images****CACNB1 Antibody (C-term) Blocking Peptide - Background**

The protein encoded by this gene belongs to the calcium channel beta subunit family. It plays an important role in the calcium channel by modulating G protein inhibition, increasing peak calcium current, controlling the alpha-1 subunit membrane targeting and shifting the voltage dependence of activation and inactivation. Alternative splicing occurs at this locus and three transcript variants encoding three distinct isoforms have been identified.

**CACNB1 Antibody (C-term) Blocking Peptide - References**

Jangsangthong, W., et al. Pflugers Arch. 459(3):399-411(2010) Olsen, J.V., et al. Cell 127(3):635-648(2006) Olsen, J.V., et al. Cell 127(3):635-648(2006) Lim, J., et al. Cell 125(4):801-814(2006) Foell, J.D., et al. Physiol. Genomics 17(2):183-200(2004)