Cacnb2 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	Cacnb2, Blocking Peptide
Full Product Name	Cacnb2 Peptide - middle region
Product Gene Name	Cacnb2 blocking peptide
Product Synonym Gene Name	Cacnlb2
Sequence	DFLKHRFEGR ISITRVTADI SLAKRSVLNN PSKHAIIERS NTRSSLAEVQ
Species Reactivity	Rat, Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	Cacnb2 peptide (MBS3227635) is used for blocking the activity of Cacnb2 antibody (MBS3202656)
Molecular Weight	66kDa
Product Categories/Family for Cacnb2 blocking peptide	Peptide
Applications Tested/Suitable for Cacnb2 blocking peptide	Western Blot (WB)
Related Product Information for Cacnb2 blocking peptide	This is a synthetic peptide designed for use in combination with anti-Cacnb2 Antibody, made Target Description: Cacnb2 is an auxillary subunit of the L-type Ca(2+) channel.
Other Notes	Small volumes of Cacnb2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Cacnb2 purchase	MBS3227635 is a blocking peptide targeting Cacnb2. Also known as Cacnb2 Peptide - middle region. Reactive in Rat, Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Cacnb2. It may not necessarily be applicable to this product.

NCBI GI #	16758716
NCBI GeneID	116600
NCBI Accession #	NP_446303
UniProt Primary Accession #	Q8VGC3
UniProt Related Accession #	Q8VGC3
GenBank Nucleotide #	NM_053851
NCBI Official Full Name	voltage-dependent L-type calcium channel subunit beta-2
NCBI Official Synonym Full Names	calcium voltage-gated channel auxiliary subunit beta 2
NCBI Official Symbol	Cacnb2

NCBI Official Synonym Symbols	Cacnlb2
UniProt Protein Name	Voltage-dependent L-type calcium channel subunit beta-2
UniProt Synonym Protein Names	Calcium channel voltage-dependent subunit beta 2
Protein Family	Voltage-dependent L-type calcium channel
UniProt Gene Name	Cacnb2
UniProt Synonym Gene Names	Cacnlb2
UniProt Entry Name	CACB2_RAT
NCBI Protein Information	voltage-dependent L-type calcium channel subunit beta-2
NCBI Summary for Cacnb2	auxillary subunit of the L-type Ca(2+) channel [RGD, Feb 2006]
UniProt Comments for Cacnb2	CACNB2: 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. Defects in CACNB2 are the cause of Brugada syndrome type 4 (BRGDA4). A heart disease characterized by the association of Brugada syndrome with shortened QT intervals. Brugada syndrome is a tachyarrhythmia characterized by right bundle branch block and ST segment elevation on an electrocardiogram (ECG). It can cause the ventricles to beat so fast that the blood is prevented from circulating efficiently in the body. When this situation occurs (called ventricular fibrillation), the individual will faint and may die in a few minutes if the heart is not reset. Belongs to the calcium channel beta subunit family. 8 isoforms of the human protein are produced by alternative splicing. Protein type: Channel, calcium Cellular Component: voltage-gated calcium channel complex; sarcolemma Molecular Function: voltage-gated calcium channel activity; protein domain specific binding; calcium channel regulator activity; high voltage-gated calcium channel activity; phosphoprotein binding; protein kinase binding Biological Process: synaptic transmission; visual perception; calcium ion transport; positive regulation of calcium ion transport; neuromuscular junction development
Research Articles on Cacnb2	**1.** these findings provide evidence for a new role of Homer1 supporting the regulation of Cav1.2 channels by STIM1.
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