

Recombinant Human CACNB2

Cat. No. CACNB2-26766TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human CACNB2 with N terminal proprietary tag, 35.42kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	89 amino acids
Description	This gene encodes a subunit of a voltage-dependent calcium channel protein which 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 which is an autoimmune disorder. Mutations in this gene are associated with Brugada syndrome. Alternatively spliced variants have been identified for this gene.
Molecular Weight	35.420kDa inclusive of tags
Tissue specificity	Expressed in all tissues.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PSSRKSTPPSSAIDIDATGLDAEENDIPANHRSPKPSANSVTSPHSKEKRMPFFKKTE HTPPYDVVPSMRPVVLVGPSTLKGYEVTMMQ
Sequence Similarities	Belongs to the calcium channel beta subunit family.Contains 1 SH3 domain.
GENE INFORMATION	
Gene Name	CACNB2 calcium channel, voltage-dependent, beta 2 subunit [Homo sapiens]
Official Symbol	CACNB2
Synonyms	CACNB2; calcium channel, voltage-dependent, beta 2 subunit; CACNLB2, MYSB; voltage-dependent L-type calcium channel subunit beta-2;
Gene ID	783
mRNA Refseq	NM_000724
Protein Refseq	NP_000715
MIM	600003
Uniprot ID	Q08289
Chromosome Location	10p12
Pathway	Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific

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biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Axon guidance, organism-specific biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem;

Function

calcium channel activity; calcium channel regulator activity; protein binding; voltage-gated calcium channel activity; voltage-gated ion channel activity;

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