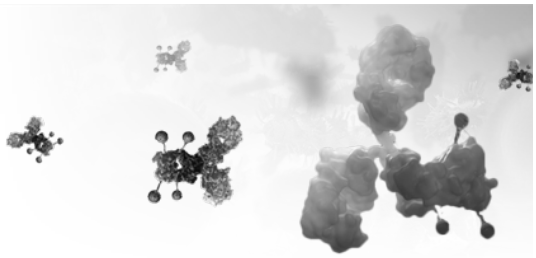

Human CACNB4 blocking peptide (CDBP0651)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-CACNB4 (C terminus) antibody
Antigen Description	This gene encodes a member of the beta subunit family of voltage-dependent calcium channel complex proteins. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. Various versions of each of these subunits exist, either expressed from similar genes or the result of alternative splicing. The protein encoded by this locus plays an important role in calcium channel function 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. Certain mutations in this gene have been associated with idiopathic generalized epilepsy (IGE) and juvenile myoclonic epilepsy (JME). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	CACNB4 calcium channel, voltage-dependent, beta 4 subunit [Homo sapiens (human)]

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Official Symbol	CACNB4
Synonyms	CACNB4; calcium channel, voltage-dependent, beta 4 subunit; EA5; EJM; CAB4; EIG9; EJM4; EJM6; CACNLB4; voltage-dependent L-type calcium channel subunit beta-4; calcium channel voltage-dependent subunit beta 4; dihydropyridine-sensitive L-type, calcium channel beta-4 subunit;
Entrez Gene ID	785
mRNA Refseq	NM_000726.3
Protein Refseq	NP_000717.2
UniProt ID	O00305
Chromosome Location	2q22-q23
Pathway	Adrenergic signaling in cardiomyocytes, organism-specific biosystem; Adrenergic signaling in cardiomyocytes, conserved biosystem; Arrhythmogenic right ventricular cardiomyopathy, organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Axon guidance, organism-specific biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, c
Function	contributes_to high voltage-gated calcium channel activity; protein binding; protein kinase binding; contributes_to voltage-gated calcium channel activity;

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