

CACNB4 mouse monoclonal antibody (hybridoma)

Catalog # H00000785-M

Size Up to 5 Clones

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant CACNB4.
Immunogen	CACNB4 (NP_000717.2, 1 a.a. ~ 520 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MSSSSYAKNGTADGPHSPTSQVARGTTRRSRLKRSRSGSTTSFILRQGSADSYTSRPSDSDV SLEEDREAIRQEREQQAAIQLERAKSCKPVAFAVKTNVSYCGALDEDVPVPSTAISFDAKDFLHIKE KYNNDWWIGRLVKEGCEIGFIPSPLRLENIRIQQEKRGRFHGGKSSGNSSSLGEMVSGTFRAT PTSTAKQKQKVTEHIPPYDVPSMRPVVLVGPSLKGYEVTDMMQKALFDLKHRFDGRISITRVTA DISLAKRSVNNPSKRAIIERSNTRSSLAEVQSEIERIFELARSLQLVLDADTINHPAQLIKTSLAPIV HVKVSSPKVLQRLIKSRGKSQSKHLNVQLVAADKLAQCPPEMFVDILDENQLEDACEHLGEYLE AYWRATHTSSTPMTPLLGRNLGSTALSPYPTAISGLQSQRMRHSNHSTENSPIERRSLMTSDENY HNERARKSRNRRLSSSQHSRDHYPLVEEDYPDSYQDTYKPHRNRGSPGGYSHDSRHRL
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody reactivity and specificity confirmed by ELISA and Western Blot.
Deliverables	Up to 5 positive hybridoma clones will be delivered to customer in the cryotube format.
Note	Customer should check the viability of the hybridomas within one month from the date of receipt. Fee-for-service of long term hybridoma storage can be performed upon customer's request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — CACNB4

Entrez GeneID	785
GeneBank Accession#	NM_000726.2
Protein Accession#	NP_000717.2
Gene Name	CACNB4
Gene Alias	CAB4, CACNLB4, EA5, EJM
Gene Description	calcium channel, voltage-dependent, beta 4 subunit
Omim ID	600669 601949 606904
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	dihydropyridine-sensitive L-type, calcium channel beta-4 subunit voltage dependent calcium channel beta 4 subunit

Pathway

- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Cardiac muscle contraction](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [MAPK signaling pathway](#)

Disease

- [Epilepsies](#)
- [Epilepsy](#)
- [Genetic Predisposition to Disease](#)