

DNAxPAb

Hard-to-Find  
Antibody

## CACNB4 DNAxPab

Catalog # H00000785-W01P

Size 200 ug

### Specification

Product Description	Rabbit polyclonal antibody raised against a partial-length human CACNB4 DNA using DNAx™ Immune technology.
Technology	<a href="#">DNAx™ Immune</a>
Immunogen	Extracellular membrane domain (ECD) human DNA
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

### Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

### Gene Info — CACNB4

Entrez GeneID	<a href="#">785</a>
GeneBank Accession#	<a href="#">NM_000726.2</a>
Protein Accession#	<a href="#">NP_000717.2</a>
Gene Name	CACNB4
Gene Alias	CAB4, CACNLB4, EA5, EJM
Gene Description	calcium channel, voltage-dependent, beta 4 subunit
Omim ID	<a href="#">600669</a> <a href="#">601949</a> <a href="#">606904</a>
Gene Ontology	<a href="#">Hyperlink</a>
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](#)