

Datasheet for ABIN2713010

## CACNB4 Protein (Transcript Variant 2) (Myc-DYKDDDDK Tag)



[Go to Product page](#)

### 1 Image

#### Overview

Quantity:	20 µg
Target:	CACNB4
Protein Characteristics:	Transcript Variant 2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CACNB4 protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Standard (STD)

#### Product Details

Characteristics:	<ul style="list-style-type: none"><li>• Recombinant human CACNB4 (transcript variant 2) protein expressed in HEK293 cells.</li><li>• Produced with end-sequenced ORF clone</li></ul>
------------------	--

Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining
---------	--

#### Target Details

Target:	CACNB4
Alternative Name:	Cacnb4 ( <a href="#">CACNB4 Products</a> )
Background:	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

## Target Details

---

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), juvenile myoclonic epilepsy (JME), and episodic ataxia, type 5.

Molecular Weight: 58 kDa

NCBI Accession: [NP\\_000717](#)

Pathways: [cAMP Metabolic Process](#), [Skeletal Muscle Fiber Development](#)

## Application Details

---

Application Notes: Recombinant human proteins can be used for:  
Native antigens for optimized antibody production  
Positive controls in ELISA and other antibody assays

Comment: The tag is located at the C-terminal.

Restrictions: For Research Use only

## Handling

---

Concentration: 50 µg/mL

Buffer: 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.

Storage: -80 °C

Storage Comment: Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.



### Western Blotting

**Image 1.** Validation with Western Blot