

Datasheet for ABIN2776098  
**anti-CACNB4 antibody (C-Term)**



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1 Image

## Overview

Quantity:	100 µL
Target:	CACNB4
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Horse, Rabbit, Guinea Pig, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CACNB4 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human CACNB4
Sequence:	LEAYWRATH T TSSTPMTPLL GRNLGSTALS PYPTAISGLQ SQMRHSNHS
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against CACNB4. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

## Target Details

Target:	CACNB4
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## Target Details

Alternative Name:	CACNB4 ( <a href="#">CACNB4 Products</a> )
Background:	<p>CACNB4 is a member of the beta subunit family, a protein in the voltage-dependent calcium channel complex. CACNB4 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. This gene encodes a member of the beta subunit family, a protein in the voltage-dependent calcium channel complex. 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 described in this record 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). Alternate transcriptional splice variants of this gene, encoding different isoforms, have been characterized.</p> <p>Alias Symbols: CAB4, CACNLB4, EA5, EJM, EIG9, EJM4, EJM6</p> <p>Protein Interaction Partner: CBX3, FASLG, REM1, MED31, TBL3, CACNA1A, PTN,</p> <p>Protein Size: 486</p>
Molecular Weight:	55 kDa
Gene ID:	785
NCBI Accession:	<a href="#">NM_001005747</a> , <a href="#">NP_001005747</a>
Pathways:	<a href="#">cAMP Metabolic Process</a> , <a href="#">Skeletal Muscle Fiber Development</a>

## Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 486 AA
Restrictions:	For Research Use only

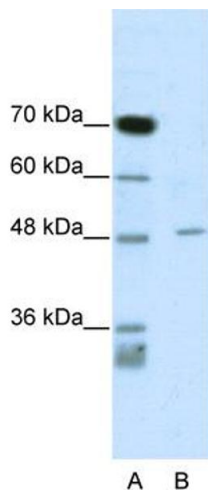
## Handling

Format:	Liquid
Concentration:	Lot specific

Handling

Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

**Image 1.** WB Suggested Anti-CACNB4 Antibody Titration:  
0.2-1 ug/ml ELISA Titer: 1:12500 Positive Control: Jurkat cell lysate