

Datasheet for ABIN7042987

**anti-CACNB3 antibody (C-Term, Intracellular)****2** Images[Go to Product page](#)

## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 50 µL  |
| Target:              | CACNB3   |
| Binding Specificity: | AA 463-477, C-Term, Intracellular  |
| Reactivity:          | Human, Rat, Mouse  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF),<br>Immunocytochemistry (ICC) |

## Product Details

|                             |  |
|-----------------------------|--|
| Immunogen:                  | Immunogen: Synthetic peptide<br>Immunogen Sequence: (C)DRNWQRNRPWPKDSY, corresponding to amino acid residues 463-477 of rabbit CACNB3  |
| Isotype:                    | IgG  |
| Cross-Reactivity (Details): | Identical for all splice forms.  |
| Characteristics:            | Anti-CACNB3 Antibody is directed against an epitope of rabbit CaVβ3. Anti-CACNB3 Antibody (ABIN7042987, ABIN7043959 and ABIN7043960)) can be used in western blot, immunohistochemistry and immunocytochemistry applications. The antibody has been designed to recognize CaVβ3 from rat, mouse and human samples. |
| Purification:               | Affinity purified on immobilized antigen.  |

## Target Details

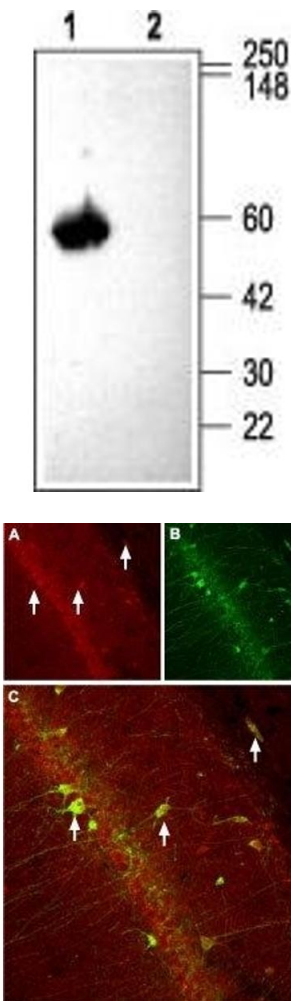
|                   |   |
|-------------------|---|
| Target:           | CACNB3  |
| Alternative Name: | CACNB3 ( <a href="#">CACNB3 Products</a> )  |
| Background:       | Alternative names: CACNB3, CaVbeta3, CAB3, CACNLB3, Voltage-dependent L-type calcium channel subunit beta-3 |
| Gene ID:          | 100009402   |
| NCBI Accession:   | <a href="#">NM_000725</a>   |
| UniProt:          | <a href="#">P54286</a>  |
| Pathways:         | <a href="#">Myometrial Relaxation and Contraction</a>   |

## Application Details

|                    |  |
|--------------------|--|
| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Restrictions:      | For Research Use only  |

## Handling

|                    |  |
|--------------------|--|
| Format:            | Lyophilized  |
| Reconstitution:    | 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.  |
| Concentration:     | 0.3 mg/mL  |
| Buffer:            | Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 5 % sucrose, 0.025 % Sodium azide.   |
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.   |
| Storage:           | RT, 4 °C, -20 °C   |
| Storage Comment:   | <p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).</p> |



### Western Blotting

**Image 1.** Western blot analysis of rat brain membranes: - 1. Anti-CACNB3 Antibody (ABIN7042987, ABIN7043959 and ABIN7043960), (1:200). 2. Anti-CACNB3 Antibody, preincubated with CACNB3 Blocking Peptide (#BLP-CC008).

### Immunohistochemistry

**Image 2.** Expression of CACNB3 (CaV $\beta$ 3) in rat hippocampus - Immunohistochemical staining of rat hippocampus with Anti-CACNB3 Antibody (ABIN7042987, ABIN7043959 and ABIN7043960). A. CaV $\beta$ 3 (red) appears in neurons (arrows). B. Staining of nerve cells with mouse anti-parvalbumin demonstrates the restriction of CaV $\beta$ 3 to cell bodies. C. Merged image of panels A and B.