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Datasheet for ABIN1694781

**anti-CACNA1B antibody (AA 101-200) (Alexa Fluor 488)**

## Overview

|                      |   |
|----------------------|---|
| Quantity:            | 100 µL  |
| Target:              | CACNA1B   |
| Binding Specificity: | AA 101-200  |
| Reactivity:          | Human   |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This CACNA1B antibody is conjugated to Alexa Fluor 488  |
| Application:         | Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

## Product Details

|                       |  |
|-----------------------|--|
| Immunogen:            | KLH conjugated synthetic peptide derived from human CACNA1B (N type) |
| Isotype:              | IgG  |
| Predicted Reactivity: | Human,Mouse,Rat  |
| Purification:         | Purified by Protein A.   |

## Target Details

|                   |  |
|-------------------|--|
| Target:           | CACNA1B  |
| Alternative Name: | CACNA1B N type ( <a href="#">CACNA1B Products</a> )                                      |
| Background:       | Synonyms: BIII, CACNN, DYT23, Cav2.2, CACNL1A5, Voltage-dependent N-type calcium channel |

## Target Details

subunit alpha-1B, Brain calcium channel III, Calcium channel, L type, alpha-1 polypeptide isoform 5, Voltage-gated calcium channel subunit alpha Cav2.2, CACNA1B, CACH5

Background: Voltage-sensitive calcium channels (VSCC) mediate the entry of calcium ions into excitable cells and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. The isoform alpha-1B gives rise to N-type calcium currents. N-type calcium channels belong to the 'high-voltage activated' (HVA) group and are blocked by omega-conotoxin-GVIA (omega-CTx-GVIA) and by omega-agatoxin-IIIA (omega-Aga-IIIA). They are however insensitive to dihydropyridines (DHP), and omega-agatoxin-IVA (omega-Aga-IVA). Calcium channels containing alpha-1B subunit may play a role in directed migration of immature neurons.

Gene ID: 774

UniProt: [Q00975](#)

## Application Details

Application Notes: IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months