

Datasheet for ABIN7043005

anti-CACNA1B antibody (Intracellular)[Go to Product page](#)**3** Images

Overview

Quantity:	25 µL
Target:	CACNA1B
Binding Specificity:	AA 851-867, Intracellular
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CACNA1B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunoprecipitation (IP)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)RHHRHRDRDKTSASTPA, corresponding to amino acid residues 851-867 of rat CACNA1B
Isotype:	IgG
Characteristics:	Anti-CACNA1B (CaV2.2) Antibody (ABIN7043005, ABIN7043951 and ABIN7043952)) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, immunoprecipitation, immunohistochemistry, and immunocytochemistry applications. It has been designed to recognize CaV2.2 from mouse, rat, and human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

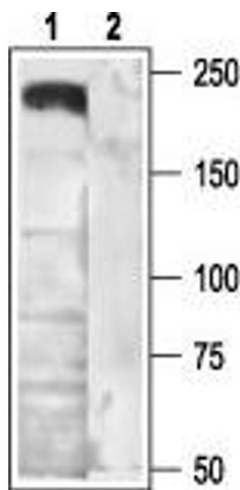
Target:	CACNA1B
Alternative Name:	CACNA1B (CaV2.2) (CACNA1B Products)
Background:	Alternative names: CACNA1B (CaV2.2), Voltage-dependent N-type calcium channel subunit alpha1B, Brain calcium channel III, BIII
Gene ID:	257648
NCBI Accession:	NM_000718
UniProt:	Q02294

Application Details

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

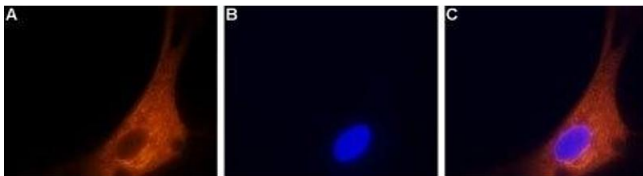
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % 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>



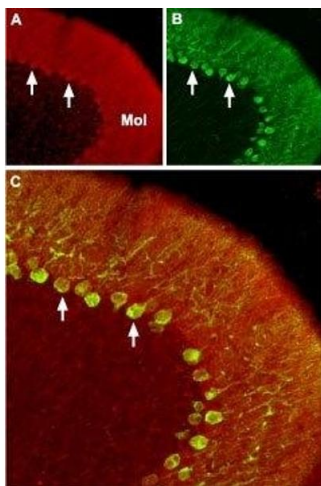
Western Blotting

Image 1. Western blot analysis of rat brain membranes: - 1. Anti-CACNA1B (CaV2.2) Antibody (ABIN7043005, ABIN7043951 and ABIN7043952), (1:200). 2. Anti-CACNA1B (CaV2.2) Antibody, preincubated with the control antigen.



Immunocytochemistry

Image 2. Expression of CaV2.2 in rat DRG primary culture - Immunocytochemical staining of paraformaldehyde-fixed and permeabilized rat dorsal root ganglion (DRG) primary culture. A. Cells were stained using Anti-CACNA1B (CaV2.2) Antibody (ABIN7043005, ABIN7043951 and ABIN7043952), (1:200) followed by goat anti-rabbit-AlexaFluor-555 secondary antibody. B. Nuclear fluorescence staining of cells using the membrane-permeable DNA dye Hoechst 33342. C. Merged images of panels A and B.



Immunohistochemistry

Image 3. Expression of CaV2.2 in mouse cerebellum - Immunohistochemical staining of mouse cerebellum with Anti-CACNA1B (CaV2.2) Antibody (ABIN7043005, ABIN7043951 and ABIN7043952), (1:100). A. CaV2.2 (red) appears in Purkinje cells (arrows) and is distributed diffusely in the molecular layer (Mol). B. Staining of Purkinje cells with mouse anti-Calbindin 28K (green) demonstrates the restriction of CaV2.2 to cell bodies but not to dendrites in the molecular layer. C. Merged image of panels A and B.