Datasheet for ABIN7043010

anti-CACNA1H antibody (Intracellular Loop)

4 Images

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Overview

Quantity:	25 µL
Target:	CACNA1H
Binding Specificity:	AA 581-595, Intracellular Loop
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CACNA1H antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: CHVEGPQERARVAHS, corresponding to amino acid residues 581-595 of rat CaV3.2
Isotype:	IgG
Characteristics:	Anti-CaV3.2 (CACNA1H) Antibody (ABIN7043010, ABIN7043980 and ABIN7043981)) 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 CaV3.2 from rat, human, and mouse samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

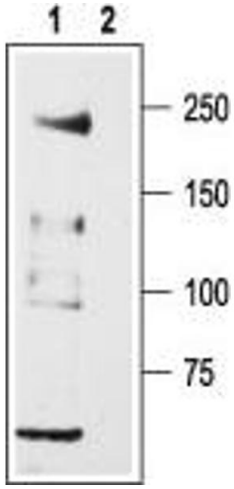
Target:	CACNA1H
Alternative Name:	CaV3.2 (CACNA1H) (CACNA1H Products)
Background:	Alternative names: Cav3.2, alpha1H (T-Type)
Gene ID:	114862
NCBI Accession:	NM_001005407
UniProt:	Q9EQ60
Pathways:	C21-Steroid Hormone Metabolic Process

Application Details

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

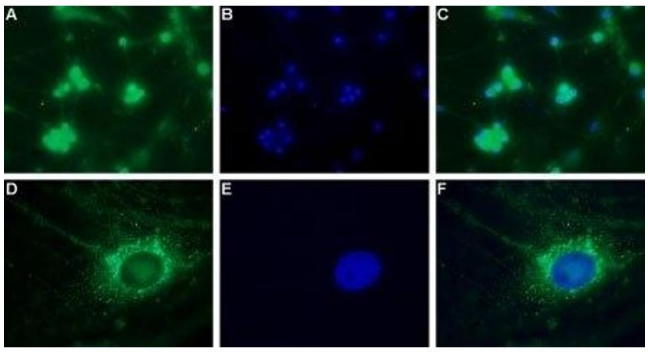
Handling

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:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. 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).



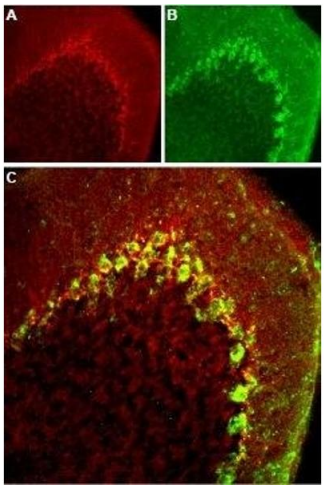
Western Blotting

Image 1. Western blot analysis of rat DRG lysates: - 1. Anti-CaV3.2 (CACNA1H) Antibody (ABIN7043010, ABIN7043980 and ABIN7043981), (1:200).2. Anti-CaV3.2 (CACNA1H) Antibody, preincubated with Cav3.2/CACNA1H Blocking Peptide (#BLP-CC025).



Immunocytochemistry

Image 2. Expression of CaV3.2 in rat DRG primary culture - Immunocytochemical staining of paraformaldehyde-fixed and permeabilized rat dorsal root ganglion (DRG) primary culture.A, D. Immunocytochemical staining using Anti-CaV3.2 (CACNA1H) Antibody (ABIN7043010, ABIN7043980 and ABIN7043981), (1:200), followed by goat anti-rabbit-AlexaFluor-488 secondary antibody.B, E. Nuclear fluorescence staining of cells using the membrane-permeable DNA dye Hoechst 33342.C. Merged image of panels A and B.F. Merged image of panels D and E. Magnification:A-C: x20D-F: x100



Immunohistochemistry

Image 3. Expression of CaV3.2 in mouse cerebellum - Immunohistochemical staining of mouse cerebellum frozen sections with Anti-CaV3.2 (CACNA1H) Antibody (ABIN7043010, ABIN7043980 and ABIN7043981), (1:100). A. CaV3.2 appears adjacent to Purkinje cells and in fibers in the molecular layer (red). B. Staining of Purkinje cells with mouse anti-parvalbumin (PV, green). C. Merged image of panels A and B demonstrates presence of CaV3.2 adjacent to Purkinje cells.

Please check the product details page for more images. Overall 4 images are available for ABIN7043010.