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# anti-CACNA1H antibody (Intracellular Loop)





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Purification:

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	
Product Details Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: CHVEGPQERARVAHS, corresponding to amino acid residues 581-595 of rat CaV3.2
	Immunogen Sequence: CHVEGPQERARVAHS, corresponding to amino acid residues 581-595

Affinity purified on immobilized antigen.

## **Target Details**

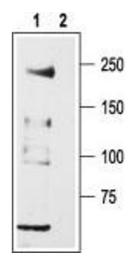
Target:	CACNA1H
Alternative Name:	CaV3.2 (CACNA1H) (CACNA1H Products)
Background:	Alternative names: Cav3.2, alpha1H (T-Type)
Gene ID:	114862
NCBI Accession:	NM_001005407
UniProt:	Q9EQ60
Pathways:	C21-Steroid Hormone Metabolic Process

## **Application Details**

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

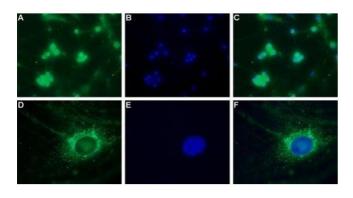
## Handling

Format:	Lyophilized
Reconstitution:	$25~\mu\text{L},50~\mu\text{L}$ 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).



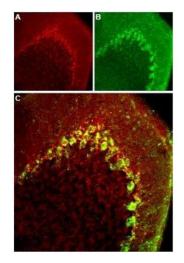
#### **Western Blotting**

**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.