

**CACNA2D3 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP9739b**

**Specification**

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**CACNA2D3 Antibody (C-term) - Product Information**

Application	FC, WB,E
Primary Accession	<a href="#">Q8IZS8</a>
Other Accession	<a href="#">Q8CFG5</a> , <a href="#">Q9Z1L5</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	123011
Antigen Region	1026-1053

**CACNA2D3 Antibody (C-term) - Additional Information**

**Gene ID** 55799

**Other Names**

Voltage-dependent calcium channel subunit alpha-2/delta-3, Voltage-gated calcium channel subunit alpha-2/delta-3, Voltage-dependent calcium channel subunit alpha-2-3, Voltage-dependent calcium channel subunit delta-3, CACNA2D3

**Target/Specificity**

This CACNA2D3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1026-1053 amino acids from the C-terminal region of human CACNA2D3.

**Dilution**

FC~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CACNA2D3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CACNA2D3 Antibody (C-term) - Protein Information**

**Name** CACNA2D3

**Function** The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel. Acts as a regulatory subunit for P/Q- type calcium channel (CACNA1A), N-type (CACNA1B), L-type (CACNA1C OR CACNA1D) but not T-type (CACNA1G) (By similarity).

**Cellular Location**

Membrane; Single-pass type I membrane protein

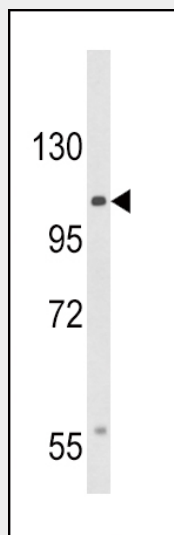
**Tissue Location**

Only detected in brain. Not present in lung, testis, aorta, spleen, jejunum, ventricular muscle and kidney (at protein level). According to PubMed:11687876, it is brain-specific, while according to PubMed:11245980, it is widely expressed

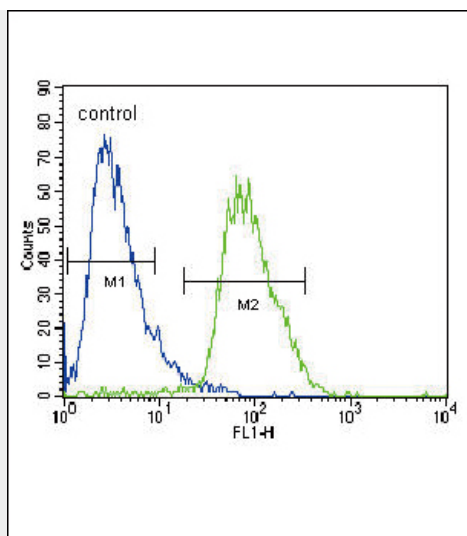
**CACNA2D3 Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**CACNA2D3 Antibody (C-term) - Images**

Western blot analysis of CACNA2D3 Antibody (C-term) (Cat. #AP9739b) in HepG2 cell line lysates (35ug/lane). CACNA2D3 (arrow) was detected using the purified Pab.



CACNA2D3 Antibody (C-term) (Cat. #AP9739b) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **CACNA2D3 Antibody (C-term) - Background**

CACNA2D3 is a member of the alpha-2/delta subunit family, a protein in the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. Various versions of each of these subunits exist, either expressed from similar genes or the result of alternative splicing. Research on a highly similar protein in rabbit suggests the protein described in this record is cleaved into alpha-2 and delta subunits.

#### **CACNA2D3 Antibody (C-term) - References**

Trynka, G., et al. Gut 58(8):1078-1083(2009)  
Wanajo, A., et al. Gastroenterology 135(2):580-590(2008)  
Uhl, G.R., et al. Arch. Gen. Psychiatry 65(6):683-693(2008)  
Abo-Dalo, B., et al. Am. J. Med. Genet. A 143A (22), 2668-2674 (2007)