

**CACNA2D3 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9739b****Specification**

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**CACNA2D3 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q8IZS8](#)**CACNA2D3 Antibody (C-term) Blocking Peptide - 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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

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

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

- [Blocking Peptides](#)

#### **CACNA2D3 Antibody (C-term) Blocking Peptide - Images**

#### **CACNA2D3 Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - 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)