

**CACNA2D4 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP5708a****Specification**

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**CACNA2D4 Antibody (N-term) Blocking peptide - Product Information**

Primary Accession [Q7Z3S7](#)  
Other Accession [NP\\_758952.4](#)

**CACNA2D4 Antibody (N-term) Blocking peptide - Additional Information**

**Gene ID** 93589

**Other Names**

Voltage-dependent calcium channel subunit alpha-2/delta-4, Voltage-gated calcium channel subunit alpha-2/delta-4, Voltage-dependent calcium channel subunit alpha-2-4, Voltage-dependent calcium channel subunit delta-4, CACNA2D4

**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.

**CACNA2D4 Antibody (N-term) Blocking peptide - Protein Information**

**Name** CACNA2D4

**Function**

The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel.

**Cellular Location**

Membrane; Single-pass type I membrane protein

**Tissue Location**

Predominantly expressed in certain types of endocrine cells. Present in the Paneth cells of the small intestine Also present in the erythroblasts in the fetal liver, in the cells of the zona reticularis of the adrenal gland and in the basophils of the pituitary. Present at low level in some brain regions such as the cerebellum (at protein level).

**CACNA2D4 Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

#### **CACNA2D4 Antibody (N-term) Blocking peptide - Images**

#### **CACNA2D4 Antibody (N-term) Blocking peptide - Background**

CACNA2D4 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. Alternative transcriptional splice variants of this gene have been observed but have not been thoroughly characterized.

#### **CACNA2D4 Antibody (N-term) Blocking peptide - References**

Wycisk, K.A., et al. Am. J. Hum. Genet. 79(5):973-977(2006) Qin, N., et al. Mol. Pharmacol. 62(3):485-496(2002)