

CACNA2D1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP8699a**Specification**

CACNA2D1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P54289](#)**CACNA2D1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 781**Other Names**

Voltage-dependent calcium channel subunit alpha-2/delta-1, Voltage-gated calcium channel subunit alpha-2/delta-1, Voltage-dependent calcium channel subunit alpha-2-1, Voltage-dependent calcium channel subunit delta-1, CACNA2D1, CACNL2A, CCHL2A, MHS3

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8699a](/products/AP8699a) was selected from the N-term region of human CACNA2D1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

CACNA2D1 Antibody (N-term) Blocking Peptide - Protein Information**Name** CACNA2D1**Synonyms** CACNL2A, CCHL2A, MHS3**Function**

The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel (PubMed:<http://www.uniprot.org/citations/35293990>). Plays an important role in excitation-contraction coupling (By similarity).

Cellular Location

Membrane; Single-pass type I membrane protein. Cell membrane

Tissue Location

Isoform 1 is expressed in skeletal muscle. Isoform 2 is expressed in the central nervous system. Isoform 2, isoform 4 and isoform 5 are expressed in neuroblastoma cells. Isoform 3, isoform 4 and isoform 5 are expressed in the aorta.

CACNA2D1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CACNA2D1 Antibody (N-term) Blocking Peptide - Images**CACNA2D1 Antibody (N-term) Blocking Peptide - Background**

CACNA2D1 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. Research on a highly similar protein in rabbit suggests the protein described in this record is cleaved into alpha-2 and delta subunits.

CACNA2D1 Antibody (N-term) Blocking Peptide - References

Williams,M.E., et.al., Neuron 8 (1), 71-84 (1992)Chaudhuri,D., et.al., J. Gen. Physiol. 129 (5), 385-401 (2007)