

CDH2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP1498b**Specification**

CDH2 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P19022](#)**CDH2 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 1000**Other Names**

Cadherin-2, CDw325, Neural cadherin, N-cadherin, CD325, CDH2, CDHN, NCAD

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1498b](/product/products/AP1498b) was selected from the C-term region of human CDH2. 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.

CDH2 Antibody (C-term) Blocking Peptide - Protein Information**Name** CDH2**Synonyms** CDHN, NCAD**Function**

Calcium-dependent cell adhesion protein; preferentially mediates homotypic cell-cell adhesion by dimerization with a CDH2 chain from another cell. Cadherins may thus contribute to the sorting of heterogeneous cell types. Acts as a regulator of neural stem cells quiescence by mediating anchorage of neural stem cells to ependymocytes in the adult subependymal zone: upon cleavage by MMP24, CDH2-mediated anchorage is affected, leading to modulate neural stem cell quiescence. Plays a role in cell-to-cell junction formation between pancreatic beta cells and neural crest stem (NCS) cells, promoting the formation of processes by NCS cells (By similarity). Required for proper neurite branching. Required for pre- and postsynaptic organization (By similarity). CDH2 may be involved in neuronal recognition mechanism. In hippocampal neurons, may regulate dendritic spine density.

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P15116}; Single-pass type I membrane protein. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:P15116}. Cell junction. Cell surface {ECO:0000250|UniProtKB:P15116}. Cell junction, desmosome {ECO:0000250|UniProtKB:P15116}. Cell junction, adherens junction {ECO:0000250|UniProtKB:P15116}. Note=Colocalizes with TMEM65 at the intercalated disk in cardiomyocytes. Colocalizes with OBSCN at the intercalated disk and at sarcolemma in cardiomyocytes {ECO:0000250|UniProtKB:P15116}

CDH2 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CDH2 Antibody (C-term) Blocking Peptide - Images**CDH2 Antibody (C-term) Blocking Peptide - Background**

CDH2 is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. The protein functions during gastrulation and is required for establishment of left-right asymmetry. At certain central nervous system synapses, presynaptic to postsynaptic adhesion is mediated at least in part by this gene product.

CDH2 Antibody (C-term) Blocking Peptide - References

Reid R.A., Nucleic Acids Res. 18:5896-5896(1990).Salomon D., J. Cell Sci. 102:7-17(1992).Amanchy,R., J. Proteome Res. 4 (5), 1661-1671 (2005)