

**CDH2 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1498b**

**Specification**

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**CDH2 Antibody (C-term) - Product Information**

Application	<b>WB, FC,E</b>
Primary Accession	<a href="#">P19022</a>
Other Accession	<a href="#">P79883</a> , <a href="#">P39038</a> , <a href="#">P55283</a> , <a href="#">P24503</a> , <a href="#">O9Z1Y3</a> , <a href="#">P15116</a> , <a href="#">O90275</a> , <a href="#">P10288</a> , <a href="#">P19534</a> , <a href="#">P20310</a> , <a href="#">P33147</a>
Reactivity	<b>Human</b>
Predicted	<b>Xenopus, Bovine, Chicken, Zebrafish, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>99809</b>
Antigen Region	<b>744-772</b>

**CDH2 Antibody (C-term) - Additional Information**

**Gene ID** 1000

**Other Names**

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

**Target/Specificity**

This CDH2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 744-772 amino acids from the C-terminal region of human CDH2.

**Dilution**

WB~~1:1000  
FC~~1:10~50

**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**

CDH2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CDH2 Antibody (C-term) - 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**

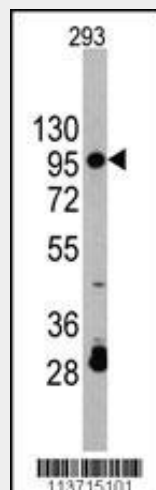
Cell membrane {ECO:0000250|UniProtKB:P15116}; Single-pass type I membrane protein. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:P15116}. Cell junction. Cell surface {ECO:0000250|UniProtKB:P15116}. Cell junction, desmosome {ECO:0000250|UniProtKB:P15116}. Cell junction, adherens junction {ECO:0000250|UniProtKB:P15116}. 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) - Protocols**

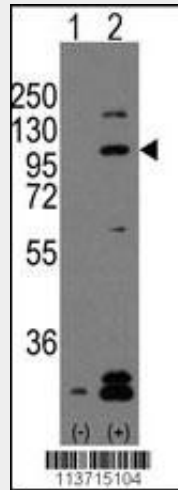
Provided below are standard protocols that you may find useful for product applications.

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

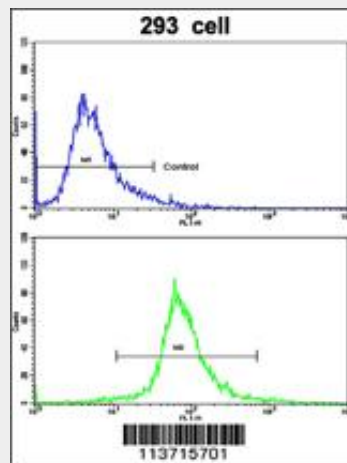
#### **CDH2 Antibody (C-term) - Images**



Western blot analysis of CDH2 Antibody (C-term) (Cat.#AP1498b) in 293 cell line lysates (35ug/lane). CDH2(arrow) was detected using the purified Pab.



Western blot analysis of CDH2 (arrow) using rabbit polyclonal CDH2 Antibody (C-term) (Cat.#AP1498b).293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CDH2 gene (Lane 2) (Origene Technologies).



Flow cytometric analysis of 293 cells using CDH2 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### CDH2 Antibody (C-term) - 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) - 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)

### CDH2 Antibody (C-term) - Citations

- [N-Glycosylation at Asn 402 Stabilizes N-Cadherin and Promotes Cell-Cell Adhesion of Glioma Cells.](#)