

**CDH2 / N Cadherin Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS17245****Specification**

---

**CDH2 / N Cadherin Antibody - Product Information**

Application	IHC-P, WB
Primary Accession	<a href="#">P19022</a>
Other Accession	<a href="#">1000</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	99809

**CDH2 / N Cadherin Antibody - Additional Information****Gene ID** 1000**Other Names**

CDH2, CDw325, CDHN, Cadherin-2, CD325, CD325 antigen, N Cadherin, N-cadherin, NCAD, Neural cadherin, N-cadherin 1, Neural-cadherin

**Target/Specificity**

Human CDH2 / N Cadherin

**Reconstitution & Storage**

PBS, pH 7.3, 0.02% sodium azide, 50% glycerol. Long term: -80°C; Short term: -20°C. Avoid freeze-thaw cycles.

**Precautions**

CDH2 / N Cadherin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**CDH2 / N Cadherin Antibody - 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}

#### **Volume**

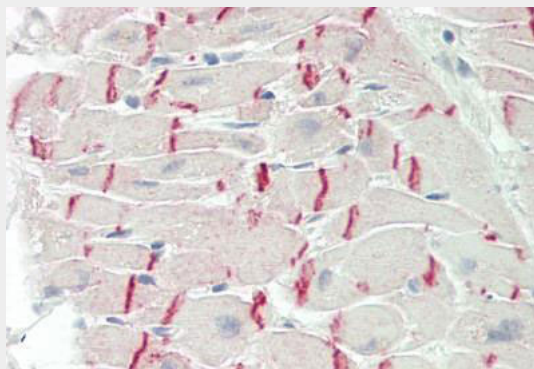
50  $\mu$ l

### **CDH2 / N Cadherin Antibody - Protocols**

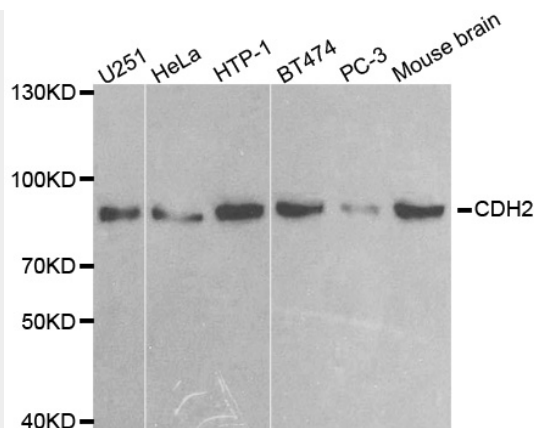
Provided below are standard protocols that you may find useful for product applications.

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

### **CDH2 / N Cadherin Antibody - Images**



Human Heart: Formalin-Fixed, Paraffin-Embedded (FFPE)



Western blot analysis of extracts of various cell lines, using CDH2 antibody.

### **CDH2 / N Cadherin Antibody - Background**

Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; 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. CDH2 may be involved in neuronal recognition mechanism. In hippocampal neurons, may regulate dendritic spine density (By similarity).

### **CDH2 / N Cadherin Antibody - References**

Reid R.A.,et al.Nucleic Acids Res. 18:5896-5896(1990).  
Reid R.A.,et al.Submitted (NOV-1990) to the EMBL/GenBank/DDBJ databases.  
Salomon D.,et al.J. Cell Sci. 102:7-17(1992).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Nusbaum C.,et al.Nature 437:551-555(2005).

### **CDH2 / N Cadherin Antibody - Citations**

- [TALENs-directed knockout of the full-length transcription factor Nrf1 \$\alpha\$  that represses malignant behaviour of human hepatocellular carcinoma \(HepG2\) cells.](#)