

**CDH4 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1401A****Specification**

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**CDH4 Antibody (N-term) - Product Information**

|                   |   |
|-------------------|---|
| Application       | IF, WB, IHC-P, FC,E                             |
| Primary Accession | <a href="#">P55283</a>                          |
| Other Accession   | <a href="#">Q63149</a> , <a href="#">P39038</a> |
| Reactivity        | Human   |
| Predicted         | Mouse, Rat                                      |
| Host              | Rabbit  |
| Clonality         | Polyclonal                                      |
| Isotype           | Rabbit IgG                                      |
| Antigen Region    | 175-203   |

**CDH4 Antibody (N-term) - Additional Information****Gene ID** 1002**Other Names**

Cadherin-4, Retinal cadherin, R-CAD, R-cadherin, CDH4

**Target/Specificity**

This CDH4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 175-203 amino acids from the N-terminal region of human CDH4.

**Dilution**

IF~~1:10~50  
WB~~1:2000  
IHC-P~~1:10~50  
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**

CDH4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CDH4 Antibody (N-term) - Protein Information****Name** CDH4

**Function** 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. May play an important role in retinal development.

**Cellular Location**

Cell membrane; Single-pass type I membrane protein

**Tissue Location**

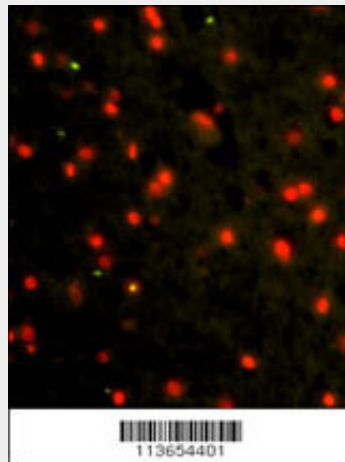
Expressed mainly in brain but also found in other tissues

**CDH4 Antibody (N-term) - Protocols**

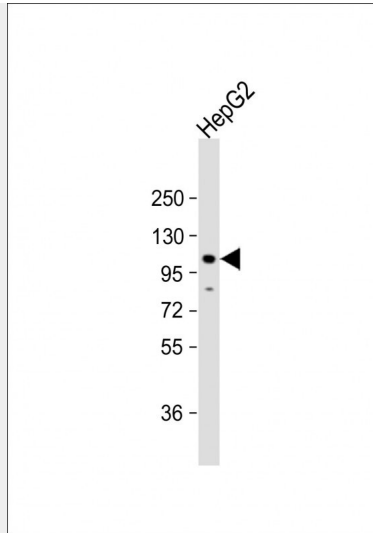
Provided below are standard protocols that you may find useful for product applications.

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

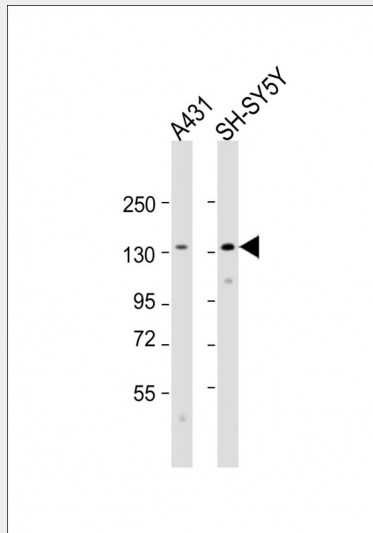
**CDH4 Antibody (N-term) - Images**



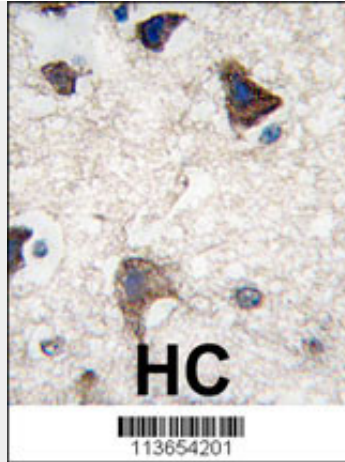
Immunofluorescence analysis of CDH4 Antibody (N-term) Antibody with paraffin-embedded human brain tissue . 0.025 mg/ml primary antibody was followed by FITC-conjugated goat anti-rabbit IgG (whole molecule). FITC emits green fluorescence.Red counterstaining is PI.



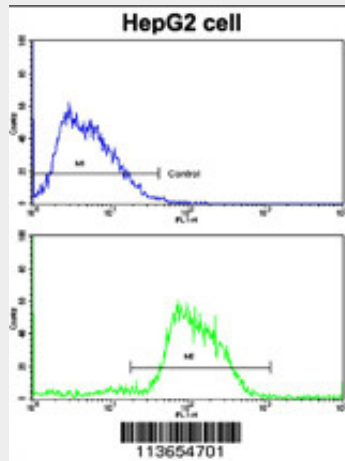
Anti-CDH4 Antibody (N-term) at 1:2000 dilution + HepG2 whole cell lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 100 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-CDH4 Antibody (N-term) at 1:2000 dilution Lane 1: A431 whole cell lysate Lane 2: SH-SY5Y whole cell lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 100 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human brain tissue reacted with CDH4 antibody (N-term) (Cat.#AP1401a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of HepG2 cells using CDH4 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### CDH4 Antibody (N-term) - Background

CDH4 is a classical cadherin from the cadherin superfamily. It is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Based on studies in chicken and mouse, this cadherin is thought to play an important role during brain segmentation and neuronal outgrowth. In addition, a role in kidney and muscle development is indicated. Of particular interest are studies showing stable cis-heterodimers of cadherins 2 and 4 in cotransfected cell lines. Previously thought to interact in an exclusively homophilic manner, this is the first evidence of cadherin heterodimerization.

### CDH4 Antibody (N-term) - References

- Miotto,E., Cancer Res. 64 (22), 8156-8159 (2004)  
Johnson,E., J. Biol. Chem. 279 (30), 31041-31049 (2004)  
Kitagawa,M., Biochem. Biophys. Res. Commun. 271 (2), 358-363 (2000)

### CDH4 Antibody (N-term) - Citations

- [Expression and Prognostic Significance of Cadherin 4 \(CDH4\) in Renal Cell Carcinoma](#)

- [Novel target genes responsive to the anti-growth activity of triptolide in endometrial and ovarian cancer cells.](#)