10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CDH4 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1401A

Specification

CDH4 Antibody (N-term) - Product Information

Application	**IHC-P, IF, FC, WB,E**
Primary Accession	P55283
Other Accession	Q63149, P39038
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
IHC-P~~1:10~50
IF~~1:10~50
FC~~1:10~50
WB~~1:2000
E~~Use at an assay dependent concentration.

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

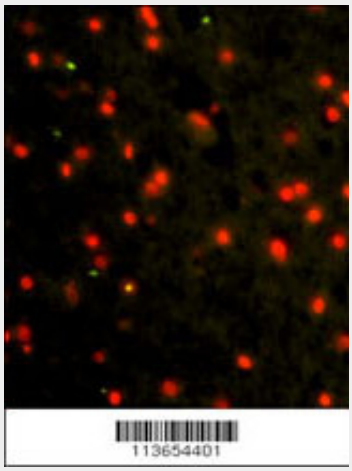
Tissue Location
Expressed mainly in brain but also found in other tissues

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 Cytomety
- 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.

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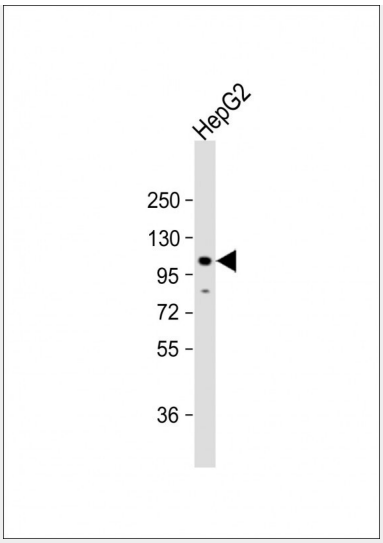
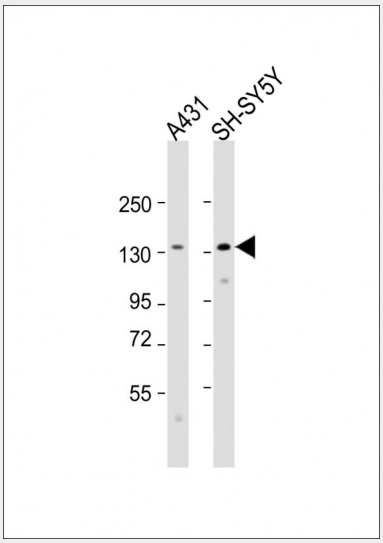


Anti-CDH4 Antibody (N-term) at 1:2000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 100 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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 µg 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.

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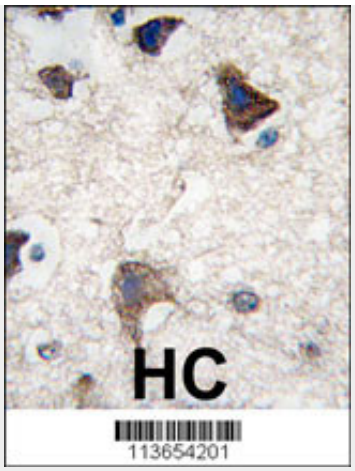
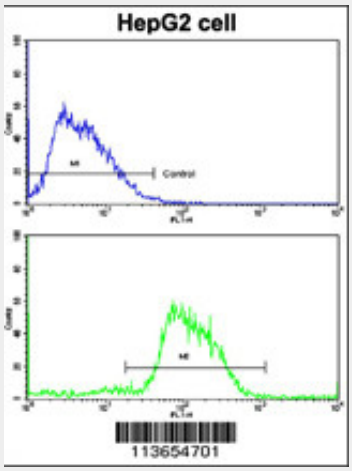


Formalin-fixed and paraffin-embedded human brain tissue reacted with CDH4 antibody (N-term) (Cat.#AP1401a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



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.