

## Rabbit CDH2 Polyclonal Antibody | anti-CDH2 antibody

CDH2 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                 |
|-----------|--------|-------------------|--------------------------------------------------------------|
| AAA321898 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Western Blot |

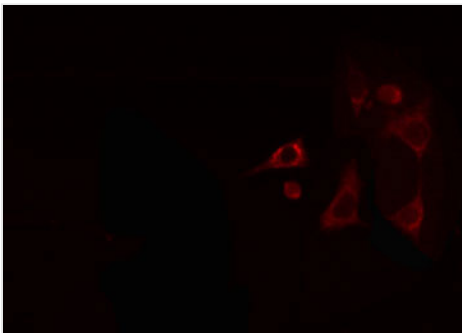
### PRODUCT SYNONYMS

CDH2; Polyclonal Antibody; CDH2 Antibody; CADH2\_HUMAN; Cadherin 2; Cadherin 2 N cadherin neuronal; Cadherin 2 type 1; Cadherin 2 type 1 N cadherin neuronal; type 1; N-cadherin (neuronal); Cadherin-2; Cadherin2; Calcium dependent adhesion protein neuronal; CD325; CD325 antigen; CDHN; CDw325; CDw325 antigen; N cadherin 1; N-cadherin; NCAD; Neural cadherin; OTTHUMP00000066304; OTTHUMP00000067378; anti-CDH2 antibody

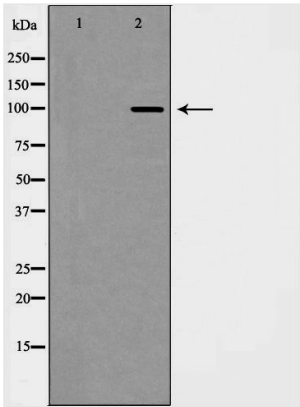
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                    |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                             |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                  |
| Clonality                                      | Polyclonal                                                                                                                         |
| Isotype                                        | IgG                                                                                                                                |
| Specificity                                    | CDH2 antibody detects endogenous levels of total CDH2                                                                              |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                      |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                      |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                             |
| Sequence Length                                | 875                                                                                                                                |
| Applicable Applications for anti-CDH2 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                                                       |
| Immunogen                                      | A synthesized peptide derived from human CDH2                                                                                      |
| Subcellular Location                           | Cell Membrane                                                                                                                      |
| Predicted Cross Reactivity                     | <b>Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus</b>                                                         |
| Similarity                                     | Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%) |
| Conjugation                                    | Unconjugated                                                                                                                       |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                  |

IMAGES



**IF (Immunofluorescence)**  
AAA321898 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



**WB (Western Blot)**  
Western blot analysis of CDH2 expression in Jurkat cells, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-CDH2 antibody</b> | <p>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. 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).</p> <p>Subunit Structure: Interacts with CDCP1 (PubMed:16007225). Interacts with PCDH8; this complex may also include TAOK2. The interaction with PCDH8 may lead to internalization through TAOK2/p38 MAPK pathway (By similarity). Identified in a complex containing FGFR4, NCAM1, CDH2, PLCG1, FRS2, SRC, SHC1, GAP43 and CTTN (By similarity). May interact with OBSCN (via protein kinase domain 2) (By similarity).</p> <p>Post-translational Modifications: Cleaved by MMP24. Ectodomain cleavage leads to the generation of a soluble 90 kDa amino-terminal soluble fragment and a 45 kDa membrane-bound carboxy-terminal fragment 1 (CTF1), which is further cleaved by gamma-secretase into a 35 kDa. Cleavage in neural stem cells by MMP24 affects CDH2-mediated anchorage of neural stem cells to ependymocytes in the adult subependymal zone, leading to modulate neural stem cell quiescence (By similarity). May be phosphorylated by OBSCN.</p> <p>Similarity: Three calcium ions are usually bound at the interface of each cadherin domain and rigidify the connections, imparting a strong curvature to the full-length ectodomain. Calcium-binding sites are occupied sequentially in the order of site 3, then site 2 and site 1 (By similarity).</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                        |
|----------------------------------|----------------------------------------|
| NCBI GI #                        | 815890961                              |
| NCBI GeneID                      | 1000                                   |
| NCBI Accession #                 | NP_001295105.1                         |
| NCBI GenBank Nucleotide #        | NM_001308176.1                         |
| UniProt Accession #              | P19022; Q14923; Q8N173; A8MWK3; B0YIY6 |
| Molecular Weight                 | Observed: 100 kD<br>Predicted: 100 kDa |
| NCBI Official Full Name          | cadherin-2 isoform 2                   |
| NCBI Official Synonym Full Names | cadherin 2                             |
| NCBI Official Symbol             | CDH2                                   |
| NCBI Official Synonym Symbols    | CDHN; NCAD; CD325; CDw325              |
| NCBI Protein Information         | cadherin-2                             |

|                            |                        |
|----------------------------|------------------------|
| UniProt Protein Name       | Cadherin-2             |
| UniProt Gene Name          | <b>CDH2</b>            |
| UniProt Synonym Gene Names | CDHN; NCAD; N-cadherin |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/cdh2-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321898>