

## Mouse N-CADHERIN Monoclonal Antibody | anti-Cdh2 antibody

MOUSE ANTI HUMAN N-CADHERIN

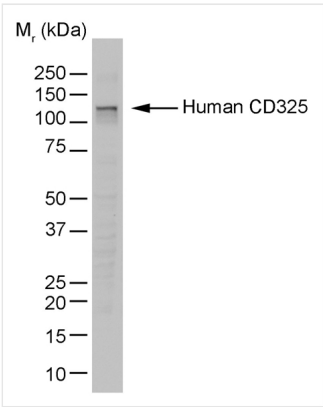
| CATALOG # | HOST  | APPLICATIONS                                                                                      |
|-----------|-------|---------------------------------------------------------------------------------------------------|
| AAA50211  | Mouse | Western Blot, Immunohistochemistry, Immunoprecipitation, Immunofluorescence, Immunohistochemistry |

### PRODUCT SYNONYMS

N-CADHERIN; Monoclonal Antibody; MOUSE ANTI HUMAN N-CADHERIN; anti-Cdh2 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                                                                                                                                     |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                |
| Isotype                                        | IgG1                                                                                                                                                                                                                                                                                                                                                                                      |
| Clone Number                                   | 13A9                                                                                                                                                                                                                                                                                                                                                                                      |
| Form/Format                                    | Purified<br>Purified IgG - liquid                                                                                                                                                                                                                                                                                                                                                         |
| Concentration                                  | IgG concentration 1.0mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                |
| Sequence Length                                | 906                                                                                                                                                                                                                                                                                                                                                                                       |
| Applicable Applications for anti-Cdh2 antibody | WB (Western Blot), IHC (Immunohistochemistry), IP (Immunoprecipitation), IF (Immunofluorescence), IHC (Immunohistochemistry)                                                                                                                                                                                                                                                              |
| Perservative Stabilisers                       | 0.09% Sodium Azide (NaN <sub>3</sub> )                                                                                                                                                                                                                                                                                                                                                    |
| Preparation                                    | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant                                                                                                                                                                                                                                                                                             |
| Immunogen                                      | Recombinant MBP fusion protein containing the entire cytoplasmic domain of human N-cadherin.                                                                                                                                                                                                                                                                                              |
| Buffer Solution                                | Phosphate buffered saline                                                                                                                                                                                                                                                                                                                                                                 |
| Target Species                                 | Human                                                                                                                                                                                                                                                                                                                                                                                     |
| Species Cross Reactivity                       | Rat                                                                                                                                                                                                                                                                                                                                                                                       |
| Reactivity Note                                | <b>N.B</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within laboratories, peer-reviewed publications or personal communications.                                                                                                                                                                                      |
| Preparation and Storage                        | This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-80°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.<br>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. |



**Application Data**  
HT1080 lysate probed with Mouse anti Human N-cadherin (AAA50211) followed by Rabbit F(ab')<sub>2</sub> anti Mouse IgG:HRP

ADDITIONAL INFORMATION

**Related Product Information for anti-Cdh2 antibody**

Mouse anti Human N-cadherin antibody, clone 13A9 specifically recognizes neural cadherin, otherwise known as CD325, a calcium dependent cell-cell adhesion glycoprotein, and member of the cadherin superfamily, which links to the actin cytoskeleton via catenins, and plays a role in cell-matrix adhesion, cell growth and differentiation, and the establishment of left-right asymmetry.

N-cadherin is expressed by neurons, endothelial cells, muscle cells, and stem cells, and is one of the primary cadherins recruited to the site of neuronal synapse formation. N-cadherin is directly involved in the differentiation of early hematopoietic progenitors, and is commonly expressed by cancer cells, playing a role in transendothelial migration and metastasis, through the up-regulation of the src kinase pathway, and subsequent failure of the intercellular connection between two adjacent endothelial cells.

Mouse anti Human N-cadherin antibody, clone 13A9 studies have demonstrated that expression levels of E-Cadherin and N-Cadherin have a role to play in the invasive properties of breast cancer. Decreased levels of E-cadherin and loss of E-cadherin-mediated adhesion, can result in the transition of a benign epithelial tumor to an invasive tumor, and increase invasiveness, whilst the expression of N-cadherin correlates with motility, invasiveness and tumor metastasis, irrespective of the presence of E-cadherin (Nieman et al. 1999). Mouse anti Human N-cadherin antibody, clone 13A9 has been shown to be specific for N-cadherin, and does not recognize E-cadherin, M-cadherin or P-cadherin (Knudsen et al. 1995). Immunohistological studies have shown that clone 13A9 can be used as a reliable marker for the differential identification of pleural mesotheliomas and lung adenocarcinomas, when used in conjunction with E-cadherin (Han et al. 1997).

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 13786162                                                                                                        |
| NCBI GeneID                      | 83501                                                                                                           |
| NCBI Accession #                 | NP_112623.1                                                                                                     |
| NCBI GenBank Nucleotide #        | NM_031333.1                                                                                                     |
| NCBI Official Full Name          | cadherin-2                                                                                                      |
| NCBI Official Synonym Full Names | cadherin 2                                                                                                      |
| NCBI Official Symbol             | Cdh2                                                                                                            |
| NCBI Official Synonym Symbols    | N-cadherin                                                                                                      |
| NCBI Protein Information         | cadherin-2; cadherin 2 type 1 N-cadherin (neuronal); cadherin 2, type 1, N-cadherin (neuronal); neural cadherin |
| UniProt Protein Name             | Cadherin-2                                                                                                      |

|                            |            |
|----------------------------|------------|
| UniProt Gene Name          | Cdh2       |
| UniProt Synonym Gene Names | N-cadherin |
| UniProt Entry Name         | CADH2_RAT  |

**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://stage.aaabiotech.com/monoclonal/n-cadherin-antibody-clone-13a9-western-blot-immunohistochemistry-immunoprecipitation-immunofluorescence-immunohistochemistry-elisa/50211>