

## Human Cadherin-2/N-Cadherin ELISA Kit | CDH2 elisa kit

Human Cadherin-2/N-Cadherin PicoKine ELISA Kit

CATALOG #  
**AAA45846**

REACTIVITY  
**Human**

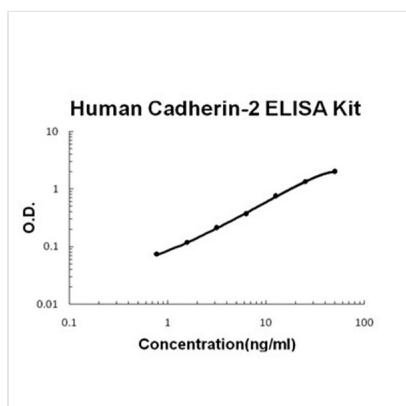
### PRODUCT SYNONYMS

Cadherin-2/N-Cadherin; Human Cadherin-2/N-Cadherin PicoKine ELISA Kit; Cadherin-2; cadherin 2; type 1; N-cadherin (neuronal); CDw325; CDHN; Neural cadherin; N-cadherin; CD325; CDH2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                |
| Specificity             | Natural and recombinant human Cadherin-2                                                                                                             |
| Sequence Length         | 906                                                                                                                                                  |
| Samples                 | Cell culture supernates, serum and plasma (heparin, EDTA)                                                                                            |
| Assay Type              | Sandwich                                                                                                                                             |
| Detection Range         | 0.78ng/ml-50ng/ml                                                                                                                                    |
| Sensitivity             | < 20pg/ml                                                                                                                                            |
| Intra-assay Precision   | Intra-Assay Precision (Precision within an assay)Three samples of known concentration were tested on one plate to assess intra-assay precision.      |
| Inter-assay Precision   | Inter-Assay Precision (Precision between assays)Three samples of known concentration were tested in separate assays to assess inter-assay precision. |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)                           |

### IMAGES



Standard Curve (Sample)

Human Cadherin-2/N-Cadherin PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Related Product Information for CDH2 elisa kit | <p><b>Principle of the assay:</b> human Cadherin-2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Cadherin-2 has been precoated onto 96-well plates. Standards(NSO, D160-A724) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Cadherin-2 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human Cadherin-2 amount of sample captured in plate.</p> <p><b>Background:</b> Cadherin-2(CDH2), also known as neural cadherin(NCAD), is a protein that in humans is encoded by the CDH2 gene. It is a classical cadherin from the cadherin superfamily. This gene is mapped to 18q12.1. Cadherin-2 is expressed in the brain, skeletal and cardiac muscle. Cadherin-2 is commonly found in cancer cells and provides a mechanism for transendothelial migration. It is a calcium dependent cell-cell adhesion glycoprotein comprising five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. The protein functions during gastrulation and is required for establishment of left-right asymmetry. At certain central nervous system synapses, presynaptic to postsynaptic adhesion is mediated at least in part by this gene product.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                             |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 116241277                                                                                                                                   |
| NCBI GeneID                      | 1000                                                                                                                                        |
| UniProt Accession #              | P19022; Q14923; Q8N173; A8MWK3; B0YIY6                                                                                                      |
| Molecular Weight                 | 97,040 Da                                                                                                                                   |
| NCBI Official Full Name          | Cadherin-2                                                                                                                                  |
| NCBI Official Synonym Full Names | cadherin 2, type 1, N-cadherin (neuronal)                                                                                                   |
| NCBI Official Symbol             | CDH2                                                                                                                                        |
| NCBI Official Synonym Symbols    | CDHN; NCAD; CD325; CDw325                                                                                                                   |
| NCBI Protein Information         | cadherin-2; N-cadherin 1; neural cadherin; neural-cadherin; cadherin 2, N-cadherin (neuronal); calcium-dependent adhesion protein, neuronal |
| UniProt Protein Name             | Cadherin-2                                                                                                                                  |
| UniProt Gene Name                | CDH2                                                                                                                                        |
| UniProt Synonym Gene Names       | CDHN; NCAD; N-cadherin                                                                                                                      |
| UniProt Entry Name               | CADH2_HUMAN                                                                                                                                 |

**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.