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# N Cadherin Rabbit mAb

Catalog # AP78942

## Product Information

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| **Application** | WB, IHC-P |
| **Primary Accession** | P19022 |
| **Reactivity** | Rat, Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Monoclonal Antibody |
| **Isotype** | IgG |
| **Conjugate** | Unconjugated |
| **Purification** | Affinity Chromatography |
| **Calculated MW** | 99809 |

## Additional Information

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| **Gene ID** | 1000 |
| **Other Names** | CDH2 |
| **Dilution** | WB~~1:1000 IHC-P~~N/A |
| **Format** | 1xPBS(pH 7.4), 150mM NaCl, 50% Glycerol, 0.02% Sodium azide and 0.05% BSA |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |

## Protein Information

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| **Name** | CDH2 |
| **Synonyms** | CDHN, NCAD |
| **Function** | Calcium-dependent cell adhesion protein; preferentially mediates homotypic cell-cell adhesion by dimerization with a CDH2 chain from another cell. 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. Plays a role in cell-to-cell junction formation between pancreatic beta cells and neural crest stem (NCS) cells, promoting the formation of processes by NCS cells (By similarity). Required for proper neurite branching. Required for pre- and postsynaptic organization (By similarity). CDH2 may be involved in neuronal recognition mechanism. In hippocampal neurons, may regulate dendritic spine density. May promote axon outgrowth and motor fiber repair via DSP-mediated recruitment to |

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| | outgrowth tips (By similarity). |
| **Cellular Location** | Cell membrane; Single-pass type I membrane protein. Cell membrane, sarcolemma {ECO:0000250\|UniProtKB:P15116}. Cell junction. Cell surface {ECO:0000250\|UniProtKB:P15116}. Cell junction, desmosome {ECO:0000250\|UniProtKB:P15116}. Cell junction, adherens junction {ECO:0000250\|UniProtKB:P15116}. Cell projection, axon {ECO:0000250\|UniProtKB:P15116}. Note=Colocalizes with TMEM65 at the intercalated disk in cardiomyocytes. Colocalizes with OBSCN at the intercalated disk and at sarcolemma in cardiomyocytes {ECO:0000250\|UniProtKB:P15116} |

## Background

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. CDH2 may be involved in neuronal recognition mechanism. In hippocampal neurons, may regulate dendritic spine density

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