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PRODUCT DATASHEET

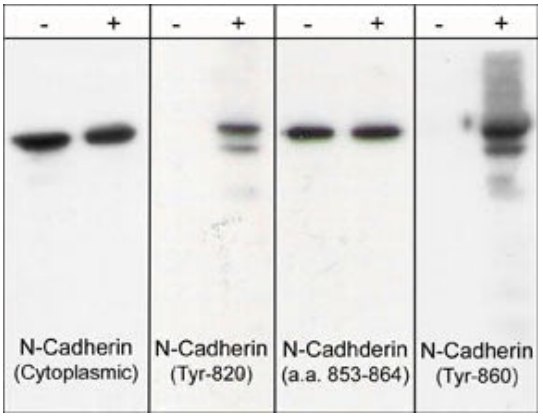
# Anti-N-Cadherin (Y860) [E-Cadherin (Y835)], Phosphospecific Antibody

## Product Details

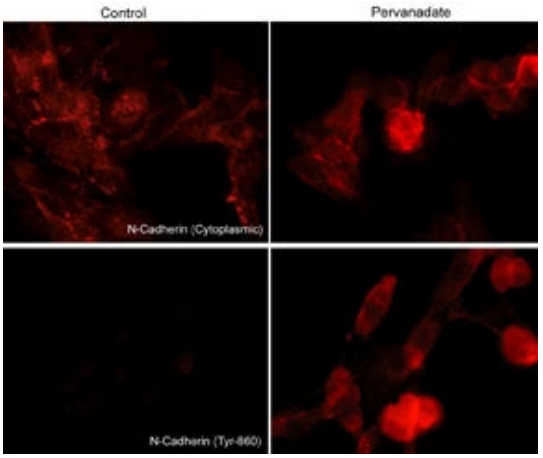
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| **Available Variants** | 100 µL (SKU:CP1951) |
| **Conjugate** | Unconjugated |
| **Isotype** | IgG |
| **Gene Name** | CDH2 |
| **Host Species** | Rabbit |
| **Format** | Antigen Affinity Purified |
| **Physical State** | Liquid |
| **Buffer** | PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol |
| **Applications** | ELISA, ICC, WB |
| **Dilution Ranges** | WB: 1:1000<br>ICC: 1:200 |
| **Species Reactivity** | Human, Mouse, Rat |
| **Immunogen** | Phospho-N-Cadherin (Tyr-860) synthetic peptide (coupled to carrier protein) corresponding to amino acids surrounding tyrosine 860 in human N-cadherin. This sequence is conserved in human E-cadherin (Tyr-835), P-cadherin (Tyr-782), R-cadherin (Tyr-870), and has significant homology to VE-Cadherin (Tyr-733). |
| **Specificity** | This antibody was cross-adsorbed to phospho-N-Cadherin (Tyr-820) and unphosphorylated N-cadherin (Tyr-860) peptides before affinity purification using phospho-N-cadherin (Tyr-860) peptide. In western blots, the antibody detects a 130 kDa* band corresponding to N-cadherin (Tyr-860) in human endothelial cells treated with pervanadate and detects a 120 kDa band corresponding to E-cadherin (Tyr-835) in human A431 cells treated with pervanadate. |

| | |
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| **Molecular Weight** | 130 |
| **Quality Control** | Western blots performed on each lot. |
| **Storage** | Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. |
| **UniProt ID** | P19022<br>UniProt Summary: 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. Required for proper neurite branching. Required for pre- and postsynaptic organization. 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 outgrowth tips. |
| **Country of Origin** | United States |
| **Shipping** | Blue Ice |
| **Expiration** | After date of receipt, stable for at least 1 year at -20°C. |
| **Usage Statement** | For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website. |
| **Post Translational Modification Type** | Phosphorylated |
| **Post Translational Modification Residue** | Tyr-860 |
| **NCBI Gene ID** | 1000 |

## Product Images




Western blot image of human endothelial cells untreated or treated with pervanadate (1 mM) for 30 min. Blots were probed with anti-N-Cadherin (Cytoplasmic), anti-N-Cadherin (Tyr-820), anti-N-Cadherin (a.a. 853-864), and anti-N-Cadherin (Tyr-860).




Immunocytochemical labeling of phosphorylated N-Cadherin in pervanadate-treated mouse C2C12. The cells were labeled with mouse monoclonal N-Cadherin (Cytoplasmic) and rabbit polyclonal N-Cadherin(Tyr-860) antibodies, then the antibodies were detected using appropriate secondary antibodies conjugated to Cy3.