

N-Cadherin (Tyr-860), phospho-specific

[Conserved site: E-Cadherin (Tyr-835)]

Cat. # CP1951

Host Rabbit Polyclonal

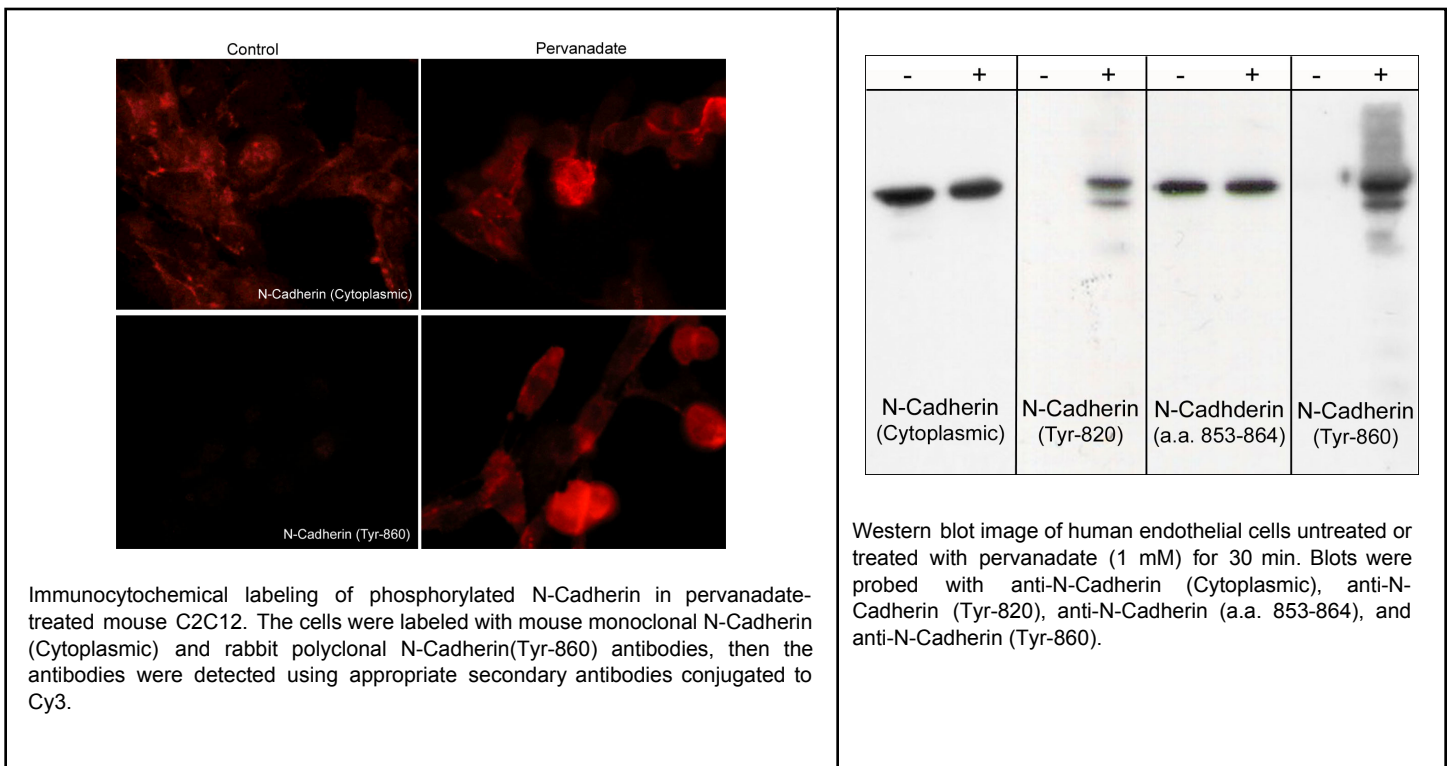
Size 100 μ l

Background:

Cadherins are transmembrane glycoproteins vital in calcium-dependent cell-cell adhesion during tissue differentiation. Cadherins cluster to form foci of homophilic binding units. A key determinant to the strength of the cadherin-mediated adhesion may be by the juxtamembrane region in cadherins. This region induces clustering and also binds to the protein p120 catenin. The cytoplasmic region is highly conserved in sequence and has been shown experimentally to regulate the cell-cell binding function of the extracellular domain of E-cadherin, possibly through interaction with the cytoskeleton. Many cadherins are regulated by phosphorylation, including N-cadherin and E-cadherin. N-cadherin is phosphorylated by c-Src at Tyr-820, Tyr-853, Tyr-860, Tyr-884, and Tyr-886. Phosphorylation of Tyr-860 can disrupt cadherin binding to β -catenin. Since many of these tyrosine sites are conserved in the cadherin family, phosphorylation of these sites may be critical for cadherin function.

References

- Xu, Y. et al. (1997) J. Biol. Chem. 272(21):13463
 Xu, Y. & Carpenter, G. (1999) J. Cell. Bioch. 75:264
 Qi, J. et al. (2006) Mol. Biol. Cell 17(3):1261



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Size 100 µl

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).

Buffer and Storage:

Rabbit polyclonal, affinity-purified antibody is supplied in 100 µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Do not aliquot. Stable for 1 year.

Applications:

WB 1:1000
ELISA 1:2000
ICC 1:200

End user should determine optimal dilution for their particular applications and experiments.
Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1hour at room temperature.

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.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

Related Products:

CM1701 N-Cadherin (Cytoplasmic) Mouse Monoclonal
CP1801 N-Cadherin (Tyr-820), phospho-specific Rabbit Polyclonal
CP1751 N-Cadherin (a.a. 811-824) Rabbit Polyclonal
CP1901 N-Cadherin (a.a. 853-864) Rabbit Polyclonal
CP1851 Unphosphorylated N-Cadherin (Tyr-820) Rabbit Polyclonal
CM1681 E-Cadherin (Cytoplasmic) Mouse Monoclonal

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