

N-Cadherin (Tyr-820), phospho-specific

Cat. # CP1801

Host Rabbit Polyclonal

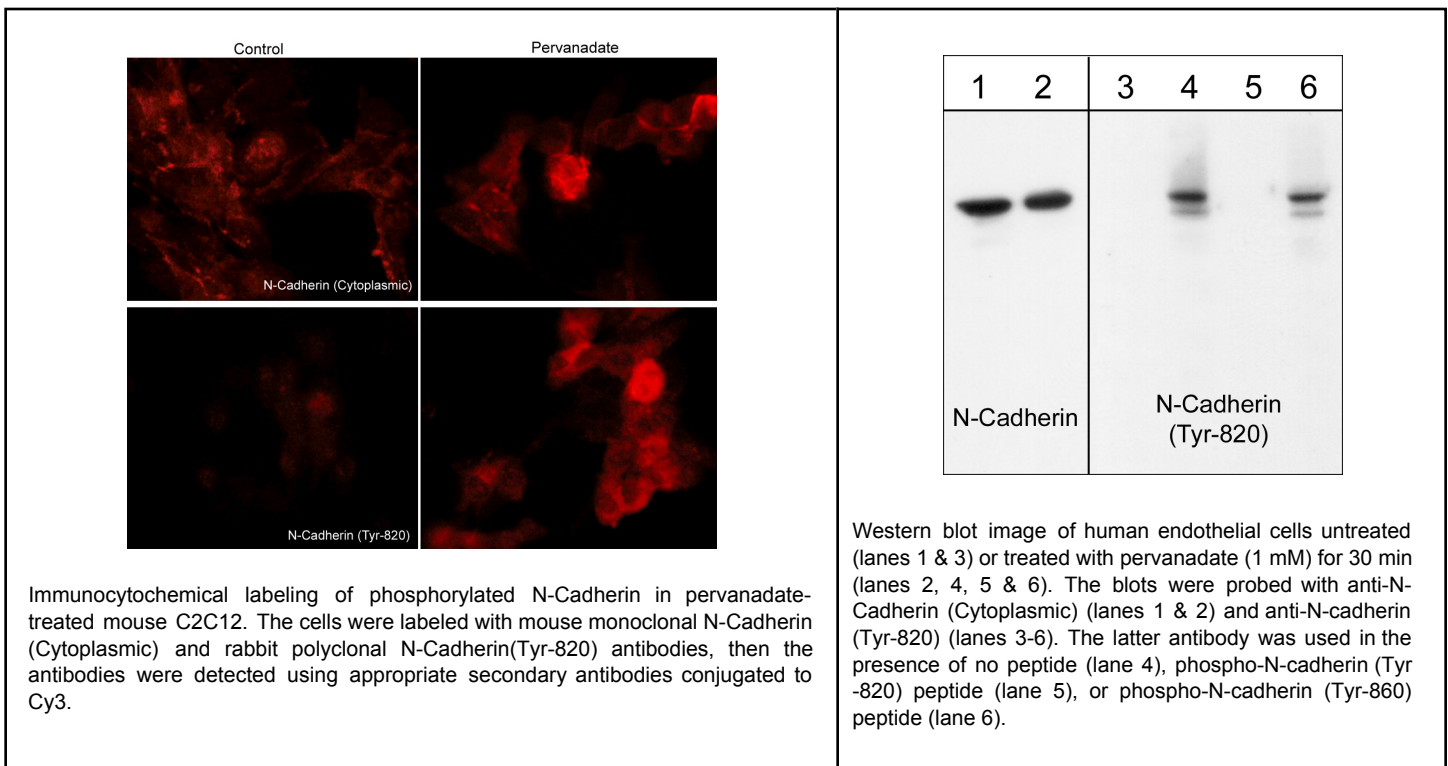
Size 100 µl

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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Immunogen:

Phospho-N-Cadherin (Tyr-820) synthetic peptide (coupled to carrier protein) corresponding to amino acids surrounding tyrosine 820 in human N-cadherin. This sequence is conserved in rat and mouse N-cadherin, and has three amino acid differences from the conserved site in R-cadherin.

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-860) and unphosphorylated N-cadherin (Tyr-820) peptides before affinity purification using phospho-N-cadherin (Tyr-820) peptide. The purified antibody detects a 130 kDa* band corresponding to N-cadherin in western blots of serum-starved human endothelial cells treated with pervanadate, but is not detected in untreated cells.

*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:

CP1901 N-Cadherin (a.a. 853-864) Rabbit Polyclonal
CP1751 N-Cadherin (a.a. 811-824) Rabbit Polyclonal
CM1701 N-Cadherin (Cytoplasmic) Mouse Monoclonal
CP1951 N-Cadherin (Tyr-860), phospho-specific [Conserved site] Rabbit
CM1681 E-Cadherin (Cytoplasmic) Mouse Monoclonal
CP1851 Unphosphorylated N-Cadherin (Tyr-820) Rabbit Polyclonal

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