

N-Cadherin (Cytoplasmic)

Cat. # CM1701

Host Mouse Monoclonal IgG1

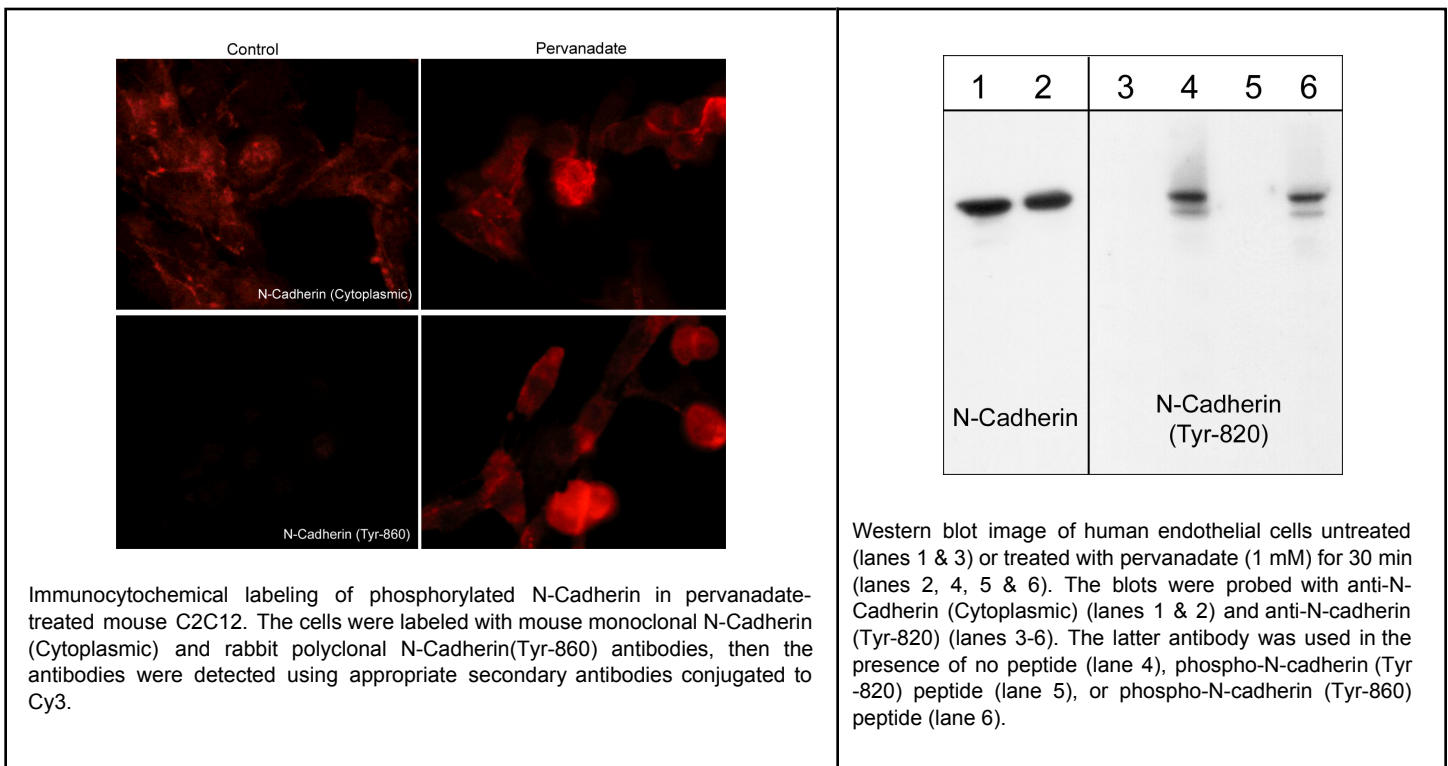
Size 100 μ l

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



FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

web: www.ecmbiosciences.comemail: info@ecmbiosciences.com

telephone: 859-879-2075

toll-free: 1-800-859-8202



N-Cadherin (Cytoplasmic)

Cat. # CM1701

Host Mouse Monoclonal IgG1

Size 100 µl

Immunogen:

Clone (M170) was generated from a human recombinant N-Cadherin protein containing amino acids in the C-terminal region. This sequence is highly conserved in rat and mouse N-Cadherin, and has some homology to R-cadherin.

Buffer and Storage:

Mouse monoclonal antibody purified with protein A chromatography is supplied in 100µl 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 ICC 1:50

ELISA 1:2000

IP 1:100

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 N-cadherin antibody detects a 130 kDa* protein in human Skn-SH and endothelial cells, as well as mouse brain tissue and C2C12 cells. The antibody does not cross-react with E-cadherin or VE-cadherin.

*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:

- CP1751 N-Cadherin (a.a. 811-824) Rabbit Polyclonal
- CP1951 N-Cadherin (Tyr-860), phospho-specific [Conserved site] Rabbit
- CP1801 N-Cadherin (Tyr-820), phospho-specific 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

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

web: www.ecmbiosciences.com

telephone: 859-879-2075

email: info@ecmbiosciences.com

toll-free: 1-800-859-8202

ECMBiosciences