

E-Cadherin (a.a. 774-786)

Cat. # CP1921

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 (Tyr-835 in E-cadherin) 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

- Takeichi, M. (1988) *Development* 102:639
Xu, Y. et al. (1997) *J. Biol. Chem.* 272(21):13463
Qi, J. et al. (2006) *Mol. Biol. Cell* 17(3):1261

Immunogen:

E-cadherin synthetic peptide corresponding to amino acids in the C-terminal region in human E-cadherin. This sequence is conserved in rat and mouse E-cadherin, and has low homology to other cadherin family members.

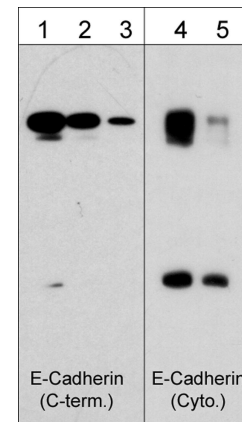
Applications:

WB 1:1000
ELISA 1:2000

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 1 hour at room temperature.

Related Products:

- CM1681 E-Cadherin (Cytoplasmic) Mouse Monoclonal
CP1951 N-Cadherin (Tyr-860)[E-Cadherin (Tyr835)], phospho-specific
CP1901 N-Cadherin (a.a. 853-864) [E-Cadherin (a.a. 828-839)]
CM1701 N-Cadherin (Cytoplasmic) Mouse Monoclonal
CP1801 N-Cadherin (Tyr-820), phospho-specific Rabbit Polyclonal
CP1981 VE-Cadherin (Tyr-685), phospho-specific Rabbit Polyclonal



Western blot image of human A431 cells that were probed with rabbit polyclonal anti-E-Cadherin (a.a. 774-786) at 1:250 (lane 1), 1:1000 (lane 2), and 1:4000 (lane 3) or mouse monoclonal anti-E-cadherin (Cytoplasmic) at 1:250 (lane 4) and 1:1000 (lane 5).

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.

Specificity:

This antibody was affinity purified using E-cadherin (a.a. 774-786) peptide. In western blots, the antibody detects a 120 kDa band corresponding to E-cadherin in human A431 cells, and does not detect VE-cadherin or N-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.

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

www.ecmbiosciences.com
telephone: 859-879-2075
toll-free: 1-800-859-8202
tech: info@ecmbiosciences.com

ECMBiosciences

Rev 2/5/2008