

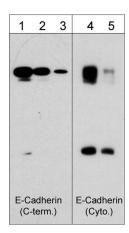
E-Cadherin (a.a. 774-786)

Rabbit Polyclonal

Cat. # CP1921 **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.



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).

Background 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.

Applications Species Reactivity Specificity

WB 1:1000 Hu, Rt, Ms

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.

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.

Immunogen Uniprot ID: P12830

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.

Buffer and Storage

Rabbit polyclonal, affinity-purified antibody is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at –20°C. Stable for 1 year.

Related Products

CM1681 E-Cadherin (Cytoplasmic) Mouse Monoclonal

CK6260 E-Cadherin Phospho-Regulation Antibody Sampler Kit

CM1701 N-Cadherin (Cytoplasmic) Mouse Monoclonal

CP1801 N-Cadherin (Tyr-820), phospho-specific Rabbit Polyclonal

CP1901 N-Cadherin (a.a. 853-864)[E-Cadherin (a.a. 828-839)] Rabbit

Product References

Gu, H. et al. (2014) FASEB Journal 28(10):4223.

WB: human small airway epithelial cells

SalaheldeenE. et al. (2014) J Histo Cytochem. 62(9):632.

WB: seminiferous tubules

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

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

Rev 9/10/2019

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