

E-Cadherin Phospho-Regulation Antibody Sampler Kit

Catalog # CK6260

Kit Components:

Catalog#	Description	Host	Size	Applications	Species Reactivity	MW (kDa)
CP1951	E-Cadherin (Tyr-835) [N-Cadherin (Tyr-860)], phospho-specific	Rabbit pAb	50 µl	WB, E, ICC	H, R, M	120
CP1901	E-Cadherin (a.a. 828-839) [N-Cadherin (a.a. 853-864)]	Rabbit pAb	50 µl	WB, E	H, R, M	120
CP1921	E-Cadherin (a.a. 774-786)	Rabbit pAb	50 µl	WB, E	H, R, M	120
CM1681	E-Cadherin (Cytoplasmic)	Mouse mAb	50 µl	WB,E,IP,IHC,ICC	H, R, M	120
MS3001	Anti-Mouse Ig:HRP	Donkey pAb	100 µl	WB, E		
RS3251	Anti-Rabbit Ig Light-Chain Specific:HRP	Mouse mAb	100 µl	WB, E		

Applications: WB = western blot, E = ELISA, ICC = Immunocytochemistry, IHC = immunohistochemistry, IP = immunoprecipitation. Species: H = Human, R = Rat, M = Mouse

Kit Summary:

The E-cadherin phospho-regulation antibody sampler kit can be used to examine phosphorylation of E-cadherin at Tyr-835. The kit includes monoclonal and polyclonal antibodies to monitor the total level of expression for E-Cadherin and secondary reagents for detection of these antibodies.

Buffers and Storage:

Mouse monoclonal and rabbit polyclonal antibodies are supplied in 50µl 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.

Background:

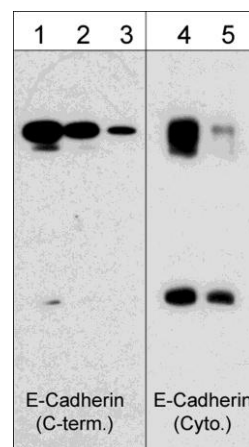
Cadherins are transmembrane glycoproteins vital in calcium-dependent cell-cell adhesion during tissue differentiation. Cadherins cluster to form foci of homophilic binding units. A key determinant to the strength of the cadherin-mediated adhesion may be by the juxtamembrane region in cadherins. This 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:

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.



Formalin fixed, citric acid treated paraffin sections of embryonic Rat E16 intestines. Sections were probed with anti-E-Cadherin (CM1681) then anti-mouse:HRP before detection using DAB. (Images provided by Carl Hobbs and Dr. Pat Doherty at Wolfson Centre for Age-Related Diseases, King's College London).



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).

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

www.ecmbiosciences.com

telephone: 859-879-2075

toll-free: 1-800-859-8202

info@ecmbiosciences.com

ECMBiosciences