www.antibodiesinc.com
orders@antibodiesinc.com
530-758-4400

PRODUCT DATASHEET

Anti-E-Cadherin (Cytoplasmic) Antibody

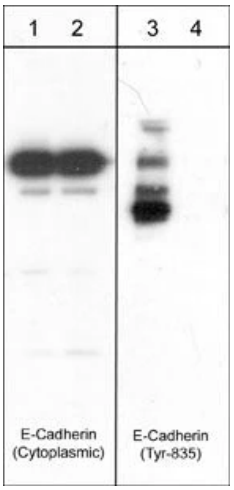
phosphosolutions ANTIBODIES THAT WORK

Product Details

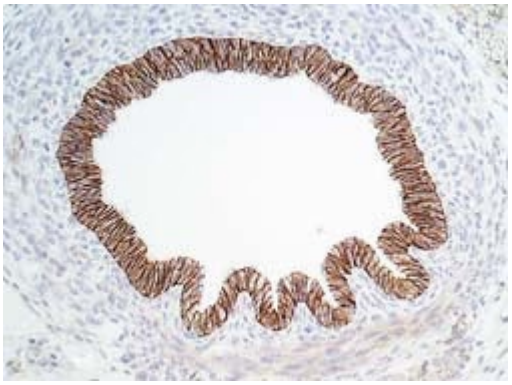
Available Variants	100 µL (SKU:CM1681)
Conjugate	Unconjugated
Isotype	IgG1
Clone	M168
Gene Name	CDH1
Host Species	Mouse
Format	Protein A Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, IHC, IP, WB
Dilution Ranges	WB: 1:1000 IHC: 1:50 ICC: 1:250 IP: 1:100
Species Reactivity	Human, Mouse, Rat
Immunogen	Clone (M168) was generated from a mouse recombinant E-Cadherin protein containing amino acids in the cytoplasmic region. This sequence is highly conserved in human and rat E-cadherin.
Specificity	This E-cadherin antibody detects a 120 kDa* protein in human A431 cells, and does not cross-react with VE-cadherin or N-cadherin.
Molecular Weight	120
Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at

	-20°C.
UniProt ID	P09803 UniProt Summary: Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. CDH1 is involved in mechanisms regulating cell-cell adhesions, mobility and proliferation of epithelial cells. Promotes organization of radial actin fiber structure and cellular response to contractile forces, via its interaction with AMOTL2 which facilitates anchoring of radial actin fibers to CDH1 junction complexes at the cell membrane. Plays a role in the early stages of desmosome cell-cell junction formation via facilitating the recruitment of DSG2 and DSP to desmosome plaques. Has a potent invasive suppressor role. It is a ligand for integrin alpha-E/beta-7.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	12550

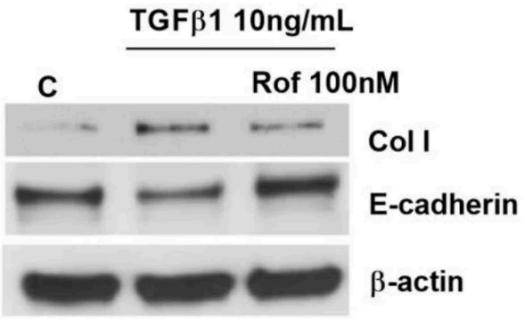
Product Images



Western blot image of human A431 cells treated with pervanadate (1 mM) for 30 min (lanes 1 & 3) then treated with akaline phosphatase (lanes 2 & 4). Blots were probed with anti-E-Cadherin (Cytoplasmic) and anti-N-Cadherin (Tyr-860)/E-Cadherin (Tyr-835) conserved site.



Formalin fixed, citric acid treated parafin 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).



Human 3D differentiated epidermis was incubated with roflumilast (Rof, 100nM) or vehicle (0.1% DMSO; control) for 30 min followed by the stimulation with TGFβ1 (10 ng/ml) for 48 h (collagen type I and E cadherin proteins (Cat. CM1681)