

Basic Information

Product Name	Anti-E-cadherin/CDH1 Antibody (Clone#9G2)	
Gene Name	CDH1	
Source	Mouse	
Isotype	IgG1	
Species Reactivity	human	
Tested Application	WB, IHC, IF, ICC/IF, FCM	
Contents	500 ug/ml antibody with PBS , 0.02% NaN3 , 1 mg BSA and 50% glycerol.	
Immunogen	E.coli-derived human E Cadherin recombinant protein (Position: A286-A703). Human E Cadherin shares 79.7% and 80.9% amino acid (aa) sequence identity with mouse and rat E Cadherin, respectively.	
concentration	500 ug/ml	
Purification	protein G purified.	
Observed MW	130KD	
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunocytochemistry in fixed cells: 1:50-400 Immunofluorescence (IF): 1:50-400 Flow cytometry (FCM): 1-3 μ g/1x10 ⁶ cells (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

CDH1 (Cadherin 1), also known as ECAD or UVO, is a protein that in humans is encoded by the CDH1 gene. Cadherin-1 is a classical member of the cadherin superfamily. By Southern analysis of DNA from a panel of mouse-human somatic cell hybrids, Mansouri et al. (1987, 1988) assigned the UVO gene to 16q (16p11-qter). Frebourg et al. (2006) found that in human embryos CDH1 is highly expressed at 4 and 5 weeks in the frontonasal prominence and at 6 weeks in the lateral and medial nasal prominences, and is therefore expressed during critical stages of lip and palate development. CDH1 is involved in mechanisms regulating cell-cell adhesions, mobility and proliferation of epithelial cells. Has a potent invasive suppressor role. It is a ligand for integrin alpha-E/beta-7.

Reference

Anti-E-cadherin/CDH1 Antibody (Clone#9G2)被引用在1文献中。

Selected Validation Data

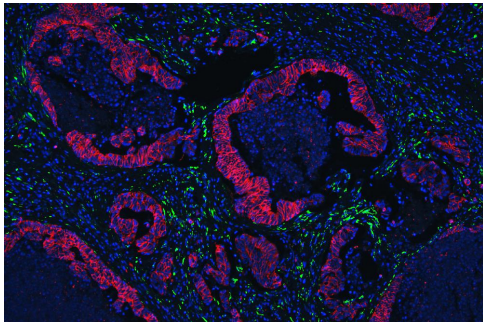


Figure 1. IF analysis of COL4A1/E Cadherin using anti- COL4A1/E Cadherin antibody (PB9099/M00063-2)
COL4A1/E Cadherin was detected in paraffin-embedded section of human colon cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/mL mouse anti- COL4A1 Antibody (PB9099)/mouse anti E Cadherin Antibody(M00063-2) overnight at 4°C. DyLight488 Conjugated goat anti-mouse IgG (BA1127) /Cy3 conjugated Goat anti mouse IgG(BA1031),were used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

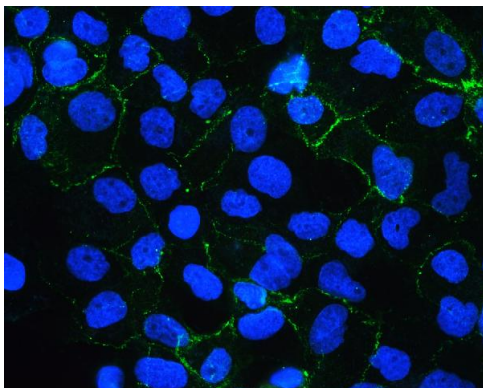


Figure 2. ICC analysis using anti- CDH1 antibody (M00063-2). was detected in immersion fixed A431 cell line . Cells were stained using the DyLight488-conjugated Anti-mouse IgG Secondary Antibody (green)(Catalog # BA1126) and counterstained with DAPI (blue).

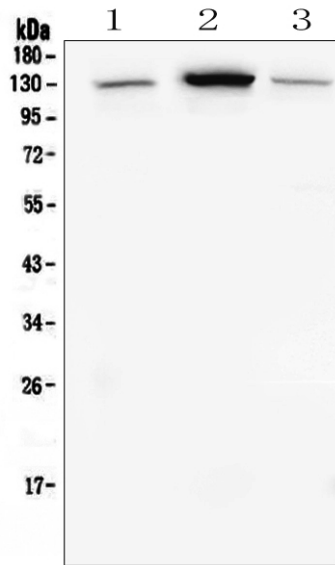


Figure 4. Western blot analysis of anti- CDH1 antibody (M00063-2).The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human placenta tissue lysates,

Lane 2: human A549 whole cell lysates,

Lane 3: human HEK293 whole cell lysates,

Use mouse anti- CDH1 1:1000, probed with a goat anti-mouse IgG- HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001). A specific band was detected for CDH1 at approximately 130KD. The expected band size for CDH1 is at 97KD.

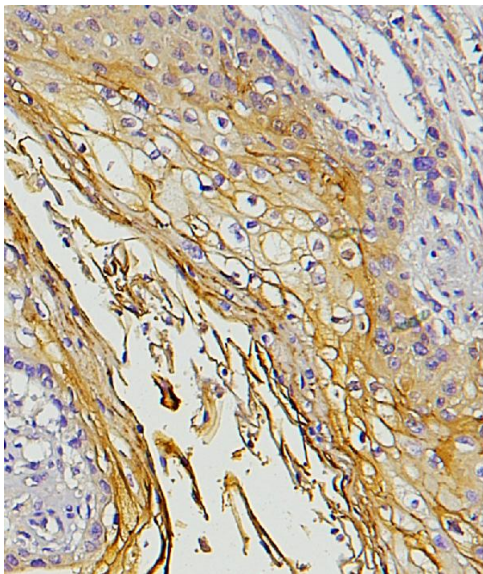


Figure 5.IHC analysis using anti- CDH1 antibody (M00063-2). detected in paraffin-embedded section of human oesophagus squama cancer tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.