Product datasheet

Anti-E-cadherin/CDH1 Antibody

Catalog Number: *PB9561*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-E-cadherin/CDH1 Antibody
Gene Name	CDH1
Source	Rabbit
Isotype	IgG
Species Reactivity	human,mouse,rat
Tested Application	WB, IHC, IF, ICC/IF, IHC-F
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1mg BSA
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	Immunogen affinity purified.
Observed MW	130KD
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunohistochemistry in frozen section (IHC-F): 1:50-400 Immunofluorescence (IF): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 ELISA: 1:100-1000 (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℃ as supplied. 6 months 2 to 8℃ 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

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Anti-E-cadherin/CDH1 Antibody 被引用在6文献中。

Selected Validation Data

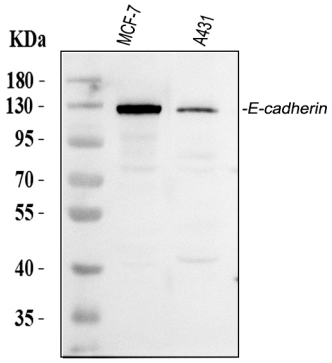

Figure 1. Western blot analysis of anti- CDH1/E-cadherin antibody (PB9561). The sample well of each lane was loaded with 30ug of sample under reducing conditions.
Lane 1: human MCF-7 whole cell lysates,
Lane 2: human A431 whole cell lysates.
Use rabbit anti- CDH1/E-cadherin 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog#EK1002). A specific band was detected for CDH1/E-cadherin at approximately 130KD. The expected band size for CDH1/E-cadherin is at 97KD.

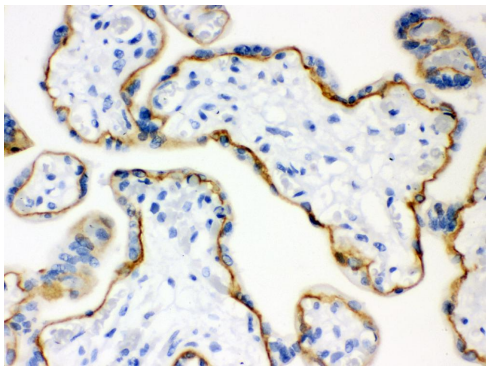

Figure 2. IHC analysis of E Cadherin using anti-E Cadherin antibody (PB9561). E Cadherin was detected in paraffin-embedded section of Human Placenta Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-E Cadherin Antibody (PB9561) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

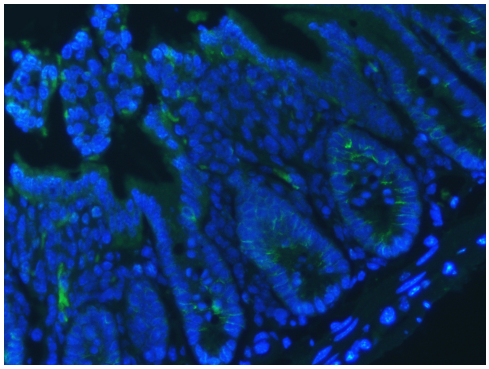

Figure 10. IF analysis using anti- E Cadherin antibody (PB9561). detected in paraffin-embedded section of mouse colon tissue. The tissue section were stained using the Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green) (Catalog # BA1127) and counterstained with DAPI (blue).

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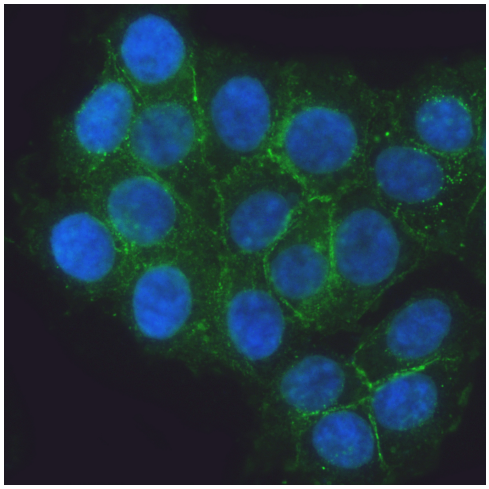

Figure 9. ICC analysis using anti- E Cadherin antibody (PB9561). was detected in immersion fixed MCF-7 cell line. Cells were stained using the Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog # BA1127) and counterstained with DAPI (blue).

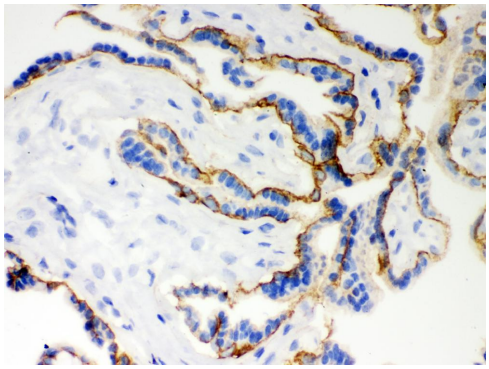

Figure 3. IHC analysis of E Cadherin using anti-E Cadherin antibody (PB9561).E Cadherin was detected in frozen section of Human Placenta Tissue. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-E Cadherin Antibody (PB9561) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.