

Basic Information

Product Name	Anti-E-cadherin/CDH1 Antibody	
Gene Name	CDH1	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml 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	Immunogen affinity purified.	
Observed MW	130 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400
	Enzyme linked immunosorbent assay (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°C as supplied.

Background Information

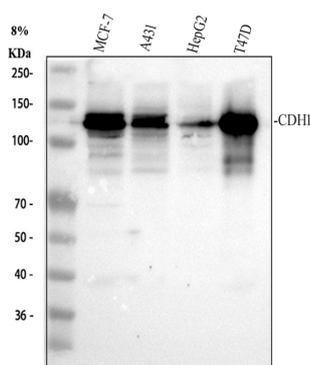
CDH1 (Cadherin 1), also known as ECAD or UVO, is a protein that in humans is encoded by the CDH1 gene. Cadherin-1 is a classical member of the cadherin superfamily. By Southern analysis of DNA from a panel of mouse-human somatic cell hybrids, Mansouri et al. (1987, 1988) assigned the UVO gene to 16q (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 被引用在61文献中。

Selected Validation Data



Western blot analysis of E-cadherin/CDH1 using anti-E-cadherin/CDH1 antibody (PB9561). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human MCF-7 whole cell lysates,

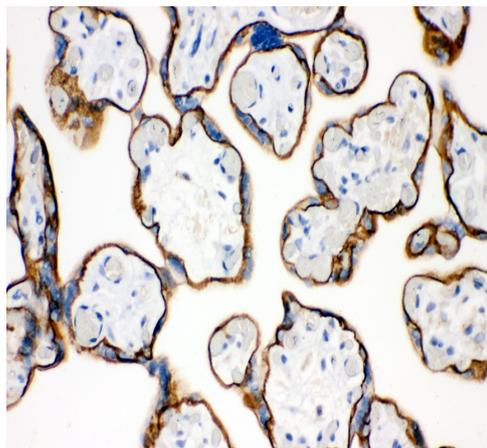
Lane 2: human A431 whole cell lysates,

Lane 3: human HepG2 whole cell lysates,

Lane 4: human T-47D whole cell lysates.

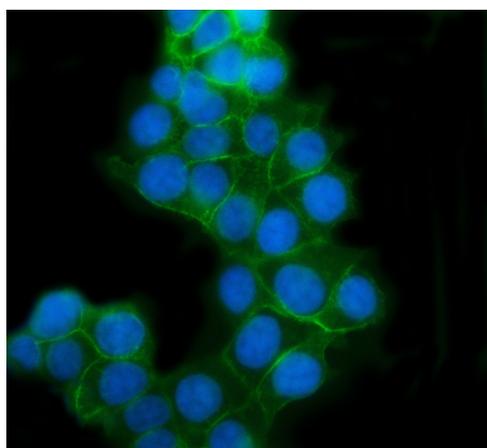
After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-E-cadherin/CDH1 antiA03957-Aen affinity purified polyclonal antibody (PB9561) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for E-cadherin/CDH1 at approximately 130 kDa. The expected band size for E-cadherin/CDH1 is at 97 kDa.



IHC analysis of E-cadherin/CDH1 using anti-E-cadherin/CDH1 antibody (PB9561).

E-cadherin/CDH1 was detected in a paraffin-embedded section of human placenta tissue. The tissue section was incubated with rabbit anti-E-cadherin/CDH1 Antibody (PB9561) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



ICC/IF analysis of E-cadherin/CDH1 using anti-E-cadherin/CDH1 antibody (PB9561).

E-cadherin/CDH1 was detected in an immunocytochemical section of MCF-7 cells. The section was incubated with rabbit anti-E-cadherin/CDH1 Antibody (PB9561) at a dilution of 1:100. Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).