For Research Use Only

E-cadherin Polyclonal antibody

Catalog Number: 20874-1-AP

Featured Product

2334 Publications



Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 20874-1-AP BC141838 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 900 ug/ml by 999 WB: 1:20000-1:200000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total Nanodrop: UNIPROT ID: protein lysate Source P12830 IHC: 1:5000-1:20000 Rabbit Full Name: IF-P: 1:200-1:800 Isotype cadherin 1, type 1, E-cadherin IF-Fro: 1:50-1:500 (epithelial) lgG IF/ICC: 1:200-1:800 Immunogen Catalog Number: Calculated MW: 882 aa, 97 kDa AG14973 **Observed MW:** 120-125 kDa **Applications Tested Applications:** Positive Controls: WB, IHC, IF/ICC, IF-P, IF-Fro, IP, ELISA WB: A431 cells. DU 145 cells. mouse testis tissue. HCT **Cited Applications:** 116 cells, MCF-7 cells, T-47D cells WB, IHC, IF, IP, CoIP IP: A431 cells. Species Specificity: human, mouse, rat **Cited Species:** human, mouse, rat, pig, canine, zebrafish, bovine Note-IHC: suggested antigen retrieval with mouse small intestine tissue TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 IF/ICC : MCF-7 cells. A431 cells **Background Information** Cadherins are a family of transmembrane glycoproteins that mediate calcium-dependent cell-cell adhesion and play an important role in the maintenance of normal tissue architecture. E-cadherin (epithelial cadherin), also antibody recognizes 120-125 kDa intact E-cadherin and its cleaved fragments of 80-120 kDa. **Notable Publications** Author Pubmed ID Journal Ji Xing 36230734 Cancers (Basel) Am 1 Transl Res Xia Peng 36247281 36249783 Front Pharmacol Yang Liu Storage Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer PBS with 0.02% sodium azide and 50% glycerol, pH7.3 Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Application WB

WB

IF

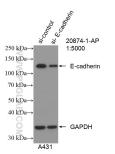
IHC : mouse colon tissue, human breast cancer tissue, human colon tissue, human prostate cancer tissue, mouse skin tissue, rat colon tissue, rat stomach tissue

IF-P: mouse colon tissue, human breast cancer tissue,

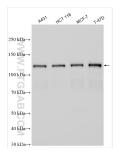
IF-Fro : mouse colon tissue, mouse breast cancer

known as CDH1 (cadherin 1) or CAM 120/80, is a classical member of the cadherin superfamily which also include N-, P-, R-, and B-cadherins. E-cadherin is expressed on the cell surface in most epithelial tissues. The extracellular region of E-cadherin establishes calcium-dependent homophilic trans binding, providing specific interaction with adjacent cells, while the cytoplasmic domain is connected to the actin cytoskeleton through the interaction with p120-, a-, β -, and γ -catenin (plakoglobin). E-cadherin is important in the maintenance of the epithelial integrity, and is involved in mechanisms regulating proliferation, differentiation, and survival of epithelial cell. E-cadherin may also play a role in tumorigenesis. It is considered to be an invasion suppressor protein and its loss is an indicator of high tumor aggressiveness. E-cadherin is sensitive to trypsin digestion in the absence of Ca2+. This polyclonal

Selected Validation Data



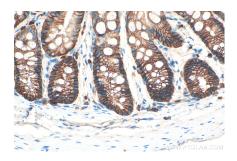
WB result of E-cadherin antibody (20874-1-AP; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-E-cadherin transfected A431 cells.



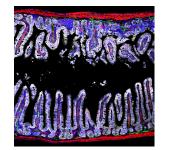
Various lysates were subjected to SDS PAGE followed by western blot with 20874-1-AP (Ecadherin antibody) at dilution of 1:70000 incubated at room temperature for 1.5 hours.



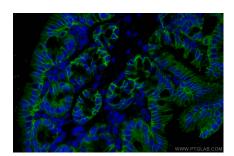
Immunohistochemical analysis of paraffinembedded mouse colon tissue slide using 20874-1-AP (E-cadherin antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



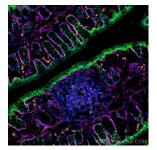
Immunohistochemical analysis of paraffinembedded mouse colon tissue slide using 20874-1-AP (E-cadherin antibody) at dilution of 1:10000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



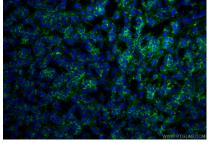
FFPE adult mouse small intestine stained for Ecadherin (white, 20874-1-APS), LYVE1 (green), and alpha-smooth muscle actin (red). E-cadherin marks intestinal epithelial cells, which regulate nutrient absorption. LYVE1 stains gut lymphatics, which absorb fat. Alpha-smooth muscle actin stains perivascular smooth muscle cells and the surrounding smooth muscle, which help propel food in the gut. Image credit: @Immunofluorescence on Instagram.

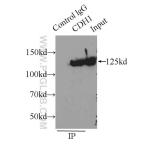


Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse colon tissue using Ecadherin antibody (20874-1-AP) at dilution of 1:400 and Multi-rAb Coralite [®] Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

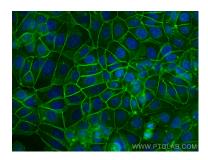


Immunofluorescence of mouse colon: Frozen OCT-embedded mouse colon sections were stained with anti-E-cadherin antibody (20874-1-AP) labeled with Coralite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2, green) in the frist step,anti-CD45 antibody (80297-1-RR) labeled with FlexAble Coralite Plus 555 Kit (KFA002, orange) in the second step,anti-Collagen Type III antibody (22734-1-AP) labeled with FlexAble Coralite647 Kit





IP result of anti-E-cadherin (IP:20874-1-AP, 3ug; Detection:20874-1-AP 1:1000) with A431 cells lysate 3000ug.



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using E-cadherin antibody (20874-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse breast cancer using E-cadherin antibody (20874-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).