

For Research Use Only

# E-cadherin Polyclonal antibody

Catalog Number: 20648-1-AP

9 Publications



## Basic Information

Catalog Number:

20648-1-AP

Concentration:

200 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_004360

GeneID (NCBI):

999

UNIPROT ID:

P12830

Full Name:

cadherin 1, type 1, E-cadherin (epithelial)

Calculated MW:

97 kDa

Observed MW:

100-125 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:1000

IHC: 1:50-1:200

IF/ICC: 1:10-1:100

## Applications

Tested Applications:

WB, IF, IHC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB: PC-3 cells,

IHC: human colon cancer tissue, human liver cancer tissue

IF/ICC: HepG2 cells,

## Background Information

E-cadherin (epithelial cadherin), also 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-,  $\alpha$ -,  $\beta$ -, and  $\gamma$ -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. This antibody is specific to CDH1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenhua Huang	36293081	Int J Mol Sci	WB
Tianming Liu	26459119	Mol Med Rep	WB
Xing Guo	29113309	Oncotarget	IF

## 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

For technical support and original validation data for this product please contact:

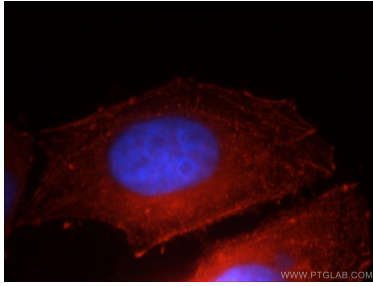
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

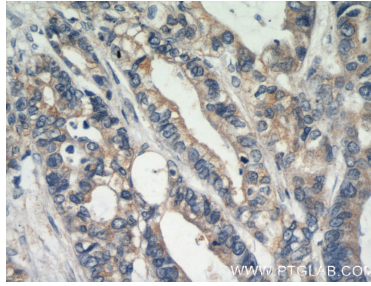
W: [ptgcn.com](http://ptgcn.com)

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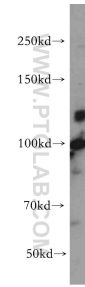
## Selected Validation Data



Immunofluorescent analysis of HepG2 cells, using CDH1 antibody 20648-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



Immunohistochemical analysis of paraffin-embedded human colon cancer using 20648-1-AP (E-cadherin antibody) at dilution of 1:50 (under 40x lens).



PC-3 cells were subjected to SDS PAGE followed by western blot with 20648-1-AP (E-cadherin antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.