

# E-cadherin Polyclonal antibody

Catalog Number: 20648-1-AP

6 Publications

## Basic Information

## Catalog Number:

20648-1-AP

## Size:

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 1:10-1:100

## Applications

## Tested Applications:

FC, IF/ICC, IHC, WB, ELISA

## Cited Applications:

IF, WB

## 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: 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. It has been regarded as a marker for spermatogonial stem cells in mice (PMID:23509752). 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
Thankam S Nair	34371293	Tissue Cell	IF

## Storage

## Storage:

Store at -20°C. Stable for one year after shipment.

## Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

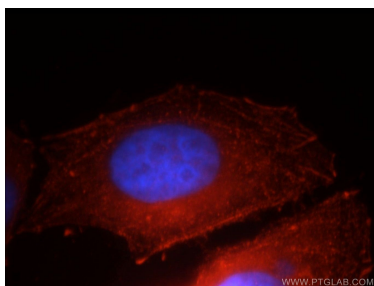
For technical support and original validation data for this product please contact:

T: 4006900926

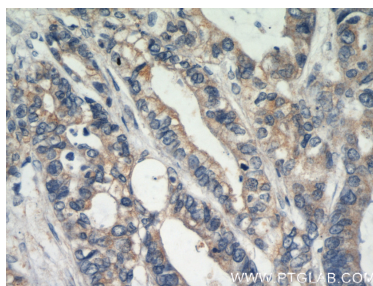
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

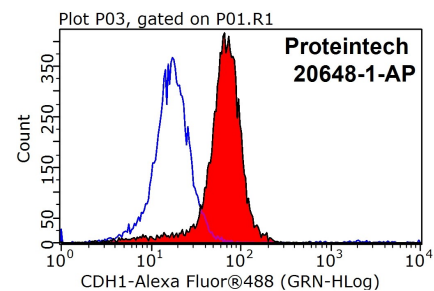
## Selected Validation Data



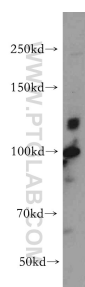
Immunofluorescent analysis of HepG2 cells, using CDH1 antibody 20648-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



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



1X10<sup>6</sup> HepG2 cells were stained with 0.2ug E-cadherin antibody (20648-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:200.



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.