

## E-cadherin Monoclonal antibody

Catalog Number: 60335-1-Ig

Featured Product

219 Publications

## Basic Information

## Catalog Number:

60335-1-Ig

## Size:

150ul, Concentration: 1000 ug/ml by 999 Nanodrop;

## Source:

Mouse

## Isotype:

IgG2b

## Immunogen Catalog Number:

AG15085

## GenBank Accession Number:

BC141838

## GeneID (NCBI):

999

## UNIPROT ID:

P12830

## Full Name:

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

## Calculated MW:

882 aa, 97 kDa

## Observed MW:

120 kDa

## Purification Method:

Protein A purification

## CloneNo.:

6B11F11

## Recommended Dilutions:

WB: 1:2000-1:8000

IHC: 1:1000-1:4000

IF-P: 1:200-1:800

IF-Fro: 1:200-1:800

IF/ICC: 1:200-1:800

## Applications

## Tested Applications:

WB, IHC, IF/ICC, IF-P, IF-Fro, ELISA

## Cited Applications:

WB, IHC, IF

## Species Specificity:

human, mouse, rat, pig

## Cited Species:

human, mouse, rat, pig, monkey

**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, A431 cells, MCF-7 cells, pig brain tissue, MKN-45 cells, SGC-7901 cells

IHC: human breast cancer tissue, human colon tissue, rat colon tissue, rat stomach tissue

IF-P: human breast cancer tissue, human kidney tissue, MCF-7 cells

IF-Fro: mouse brain tissue,

IF/ICC: MCF-7 cells, mouse breast cancer

## 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 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenjing Guo	33117682	Front Oncol	WB
Hui-Fang Wang	28970011	Eur J Pharmacol	WB, IF
Wei Li	34603446	J Oncol	WB

## 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

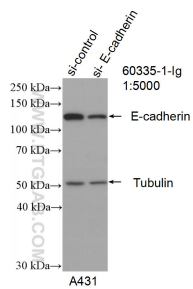
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

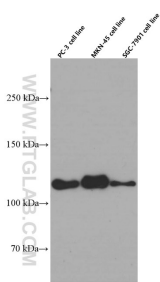
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

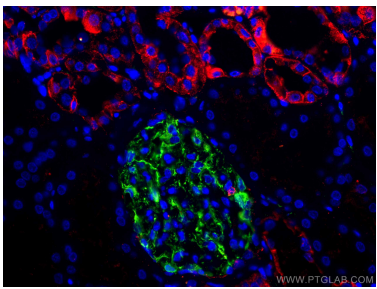
Selected Validation Data



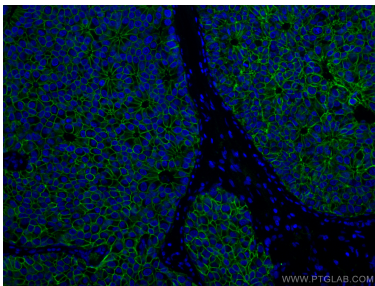
WB result of E-cadherin antibody (60335-1-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-E-cadherin transfected A431 cells.



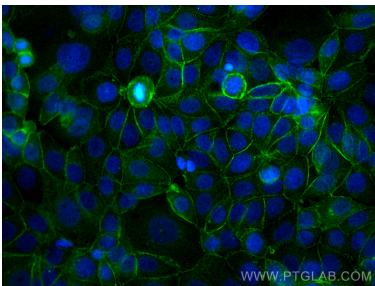
PC-3, MKN-45, SGC-7901 cells were subjected to SDS PAGE followed by western blot with 60335-1-Ig (E-cadherin Antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



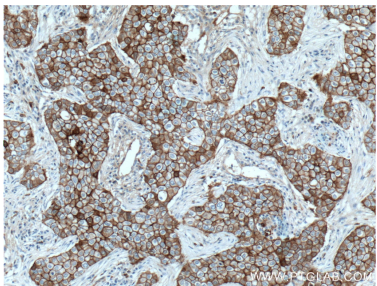
Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using E-cadherin antibody (60335-1-Ig, Clone: 6B11F11 ) at dilution of 1:300 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), (18150-1-AP, green). DNA was stained by DAPI (blue).



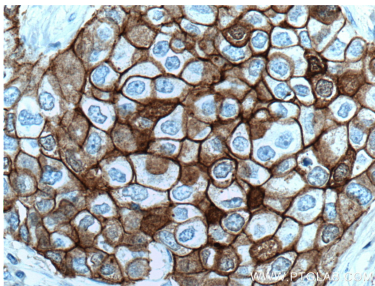
Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using E-cadherin antibody (60335-1-Ig, Clone: 6B11F11 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



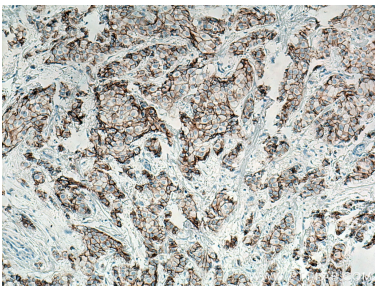
Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using E-cadherin antibody (60335-1-Ig, Clone: 6B11F11 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



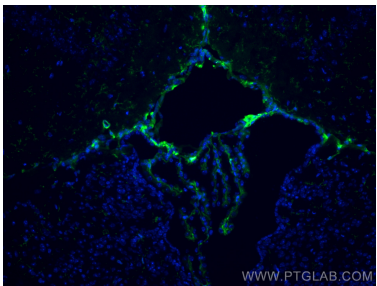
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60335-1-Ig (E-cadherin antibody) at dilution of 1:2000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



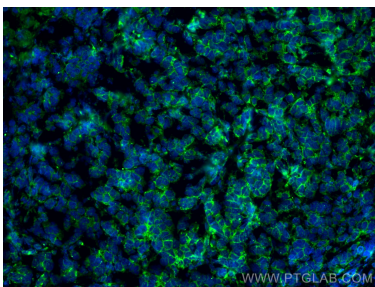
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60335-1-Ig (E-cadherin antibody) at dilution of 1:2000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60335-1-Ig (E-cadherin antibody) at dilution of 1:8000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using E-cadherin antibody (60335-1-Ig, Clone: 6B11F11 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).



Immunofluorescent analysis of (4% PFA) fixed mouse breast cancer using E-cadherin antibody (60335-1-Ig, Clone: 6B11F11 ) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).