For Research Use Only

E-cadherin Monoclonal antibody

Catalog Number:60335-1-Ig Featured Product 154 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
60335-1-Ig

Size:
1000 μg/ml

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 1:200-1:800

Applications

Tested Applications:
FC, IF/ICC,IF-P, IHC, WB, ELISA

Cited Applications:
FC, IF, IHC, WB

Species Specificity:
human, pig, rat

Cited Species:
human, rat, monkey, pig

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, rat stomach tissue, human colon tissue, rat colon tissue

IF : human breast cancer tissue, human kidney tissue, MCF-7 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 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-, α -, 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.

Notable Publications

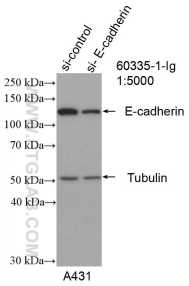
Author	Pubmed ID	Journal	Application
Wenjing Guo	33117682	Front Oncol	WB
Hui-Fang Wang	28970011	Eur J Pharmacol	WB,IF
Wei Li	34603446	J Oncol	WB

Storage

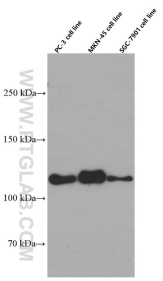
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

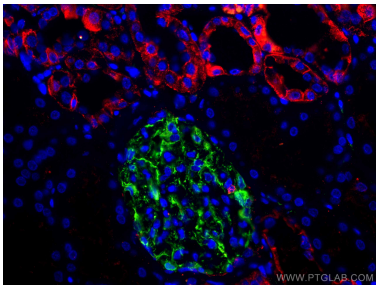
Selected Validation Data



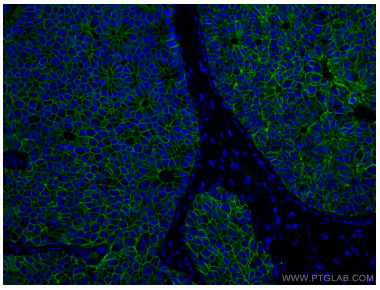
WB result of E-cadherin antibody (60335-1-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-E-cadherin transfected A431 cells.



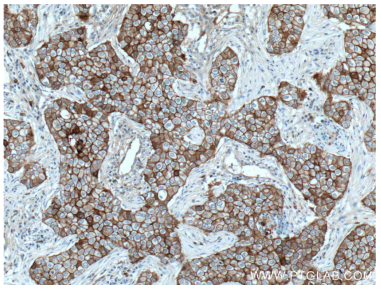
PC-3, MKN-45, SGC-7901 cells were subjected to SDS PAGE followed by western blot with 60335-1-Ig (E-cadherin Antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



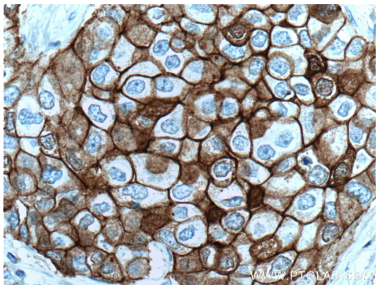
Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using E-cadherin antibody (60335-1-Ig, Clone: 6B11F11) at dilution of 1:300 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), (18150-1-AP, green). DNA was stained by DAPI (blue).



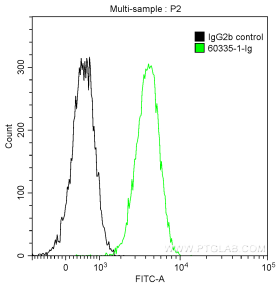
Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using E-cadherin antibody (60335-1-Ig, Clone: 6B11F11) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



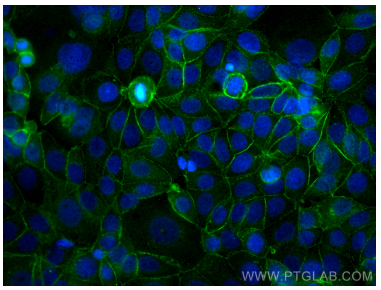
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60335-1-Ig (E-cadherin antibody) at dilution of 1:2000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1X10^6 A431 cells were stained with 0.2 ug Anti-Human E-cadherin (60335-1-Ig, Clone:6B11F11) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), or stained with 0.2 ug isotype control antibody and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (black). Cells were fixed with 90% MeOH.



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).