

For Research Use Only

Pan-cadherin Polyclonal antibody

Catalog Number: 31313-1-AP

2 Publications



Basic Information

Catalog Number:

31313-1-AP

Concentration:

450 ug/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:

120-130 kDa

Purification Method:

Antigen affinity Purification

Recommended Dilutions:

WB: 1:1000-1:4000

IHC: 1:200-1:800

IF/ICC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human

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: A431 cells, C6 cells, HUVEC cells, HeLa cells, MCF-7 cells, mouse brain tissue, mouse heart tissue, human placenta tissue

IHC: mouse colon tissue, mouse heart tissue

IF/ICC: 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 tissue morphogenesis and the maintenance of normal tissue architecture (PMID: 23885883). The classic cadherin family members include E-, N-, P-, R-, and B-cadherins. The classic cadherins have ectodomains composed of five extracellular cadherin (EC) repeats, a single transmembrane region, and a cytoplasmic domain. Structural characterization indicated that the known cadherins are glycoproteins ranging in their apparent molecular weights between 120 and 140 kDa (PMID: 2077036). This polyclonal antibody is raised against a synthetic peptide corresponding to a conserved region of human E-cadherin and can detect E-, N-, P-, VE-, and R-cadherins.

Notable Publications

Author	Pubmed ID	Journal	Application
Xuemei Yao	40344881	Biomaterials	WB
Wei Chen	40013670	Cancer Med	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

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

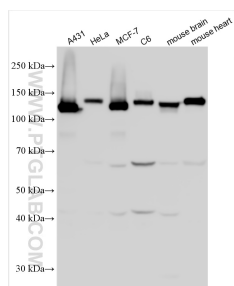
T: 4006900926

E: Proteintech-CN@ptglab.com

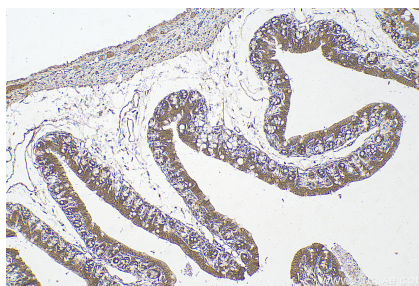
W: ptgcn.com

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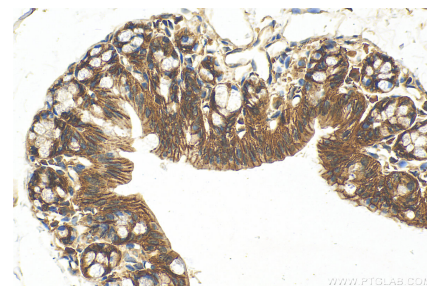
Selected Validation Data



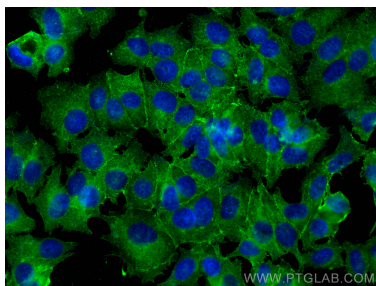
Various lysates were subjected to SDS PAGE followed by western blot with 31313-1-AP (Pan-cadherin antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 31313-1-AP (Pan-cadherin antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 31313-1-AP (Pan-cadherin antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using Pan-cadherin antibody (31313-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).