

For Research Use Only

Pan-cadherin Polyclonal antibody

Catalog Number: 31313-1-AP



Basic Information

Catalog Number: 31313-1-AP	GenBank Accession Number: NM_004360	Purification Method: Antigen affinity Purification
Size: 150ul , Concentration: 450 ug/ml by Nanodrop;	GeneID (NCBI): 999	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:200-1:800 IF/ICC 1:50-1:500
Source: Rabbit	UNIPROT ID: P12830	
Isotype: IgG	Full Name: cadherin 1, type 1, E-cadherin (epithelial)	
	Calculated MW: 97 kDa	
	Observed MW: 120-130 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human, mouse, rat

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, HeLa cells, MCF-7 cells, C6 cells, mouse brain tissue, mouse heart 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.

Storage

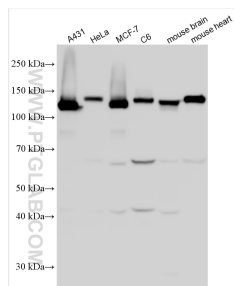
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

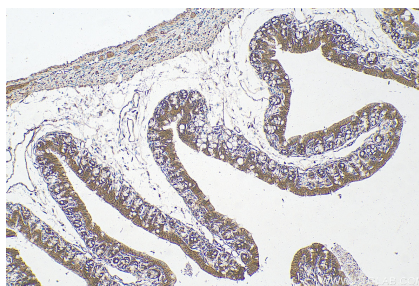
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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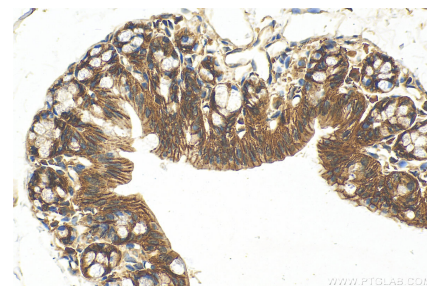
Selected Validation Data



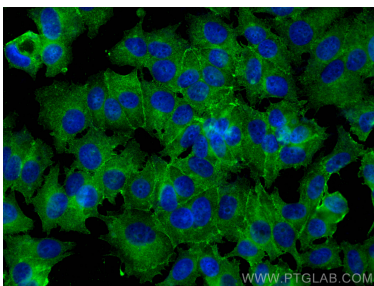
Various lysates were subjected to SDS PAGE followed by western blot with 31313-1-AP (Pan-cadherin antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).