

For Research Use Only

E-cadherin Recombinant antibody, PBS Only (Capture)

Catalog Number: 83991-4-PBS



Basic Information

Catalog Number:	83991-4-PBS	GenBank Accession Number:	NM_004360.5	Purification Method:	Protein A purification
Concentration:	1 mg/ml	GeneID (NCBI):	999	CloneNo.:	241098G6
Source:	Rabbit	UNIPROT ID:	P12830-1		
Isotype:	IgG	Full Name:	cadherin 1, type 1, E-cadherin (epithelial)		
		Calculated MW:	97 kDa		
		Observed MW:	135 kDa		

Applications

Tested Applications:
WB, IHC, IF/ICC, Cytometric bead array, Indirect ELISA

Species Specificity:
human

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-, 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.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

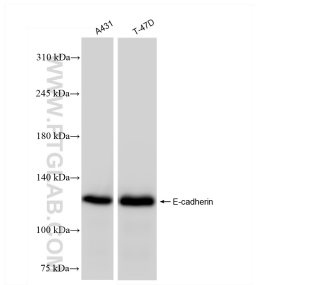
T: 4006900926

E: Proteintech-CN@ptglab.com

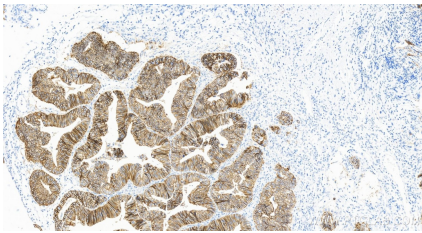
W: ptgcn.com

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

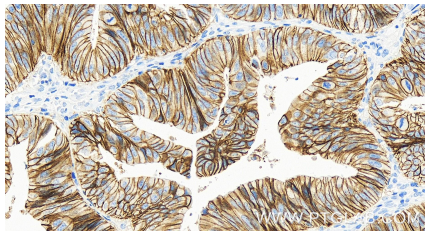
Selected Validation Data



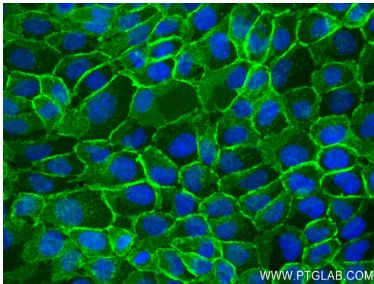
Various lysates were subjected to SDS PAGE followed by western blot with 83991-4-RR (E-cadherin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83991-4-PBS in a different storage buffer formulation.



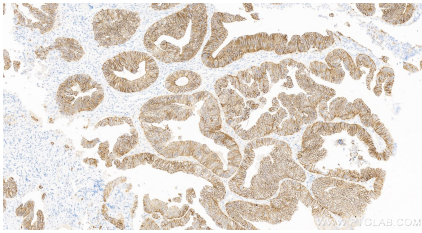
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 83991-4-RR (E-cadherin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83991-4-PBS in a different storage buffer formulation.



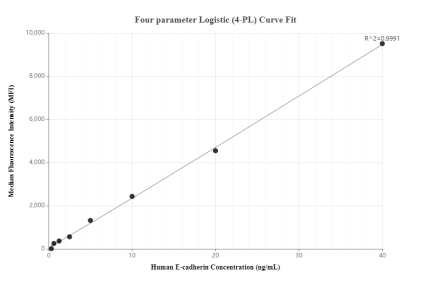
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 83991-4-RR (E-cadherin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83991-4-PBS in a different storage buffer formulation.



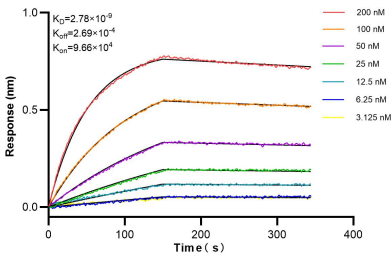
Immunofluorescent analysis of (4% PFA) fixed A431 cells using E-cadherin antibody (83991-4-RR, Clone: 241098G6) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83991-4-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 83991-4-RR (E-cadherin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83991-4-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00187-6, E-cadherin Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83991-4-PBS. Detection antibody: 83991-2-PBS. Standard: Eg1112. Range: 0.313-40 ng/mL.



Bi-layer interferometry (BLI) kinetic assays of 83991-4-RR against Human E-cadherin were performed. The affinity constant is 2.78 nM.