

For Research Use Only

E-cadherin Recombinant antibody

Catalog Number: 80541-5-RR

3 Publications



Basic Information

Catalog Number: 80541-5-RR	GenBank Accession Number: BC141838	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 999	CloneNo.: 240159C10
Source: Rabbit	UNIPROT ID: P12830	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:200-1:800 IF/ICC 1:250-1:1000
Isotype: IgG	Full Name: cadherin 1, type 1, E-cadherin (epithelial)	
Immunogen Catalog Number: AG14973	Calculated MW: 882 aa, 97 kDa Observed MW: 135 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : HCT 116 cells, Caco-2 cells, A431 cells, T-47D cells, MCF-7 cells IHC : human stomach cancer tissue, IF/ICC : MCF-7 cells,
Cited Applications: WB, IF	
Species Specificity: human	
Cited Species: human, mouse	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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.

Notable Publications

Author	Pubmed ID	Journal	Application
MengHua Li	39948392	Sci Rep	WB,IF
Chu Hao	39912944	J Cancer Res Clin Oncol	WB
Shansong Huang	39827204	Sci Rep	WB

Storage

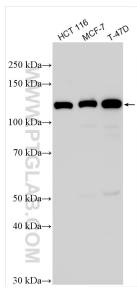
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

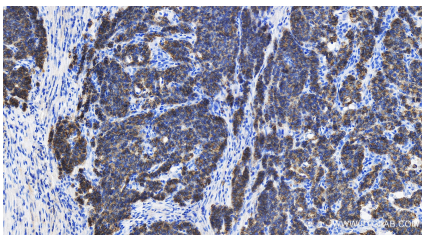
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

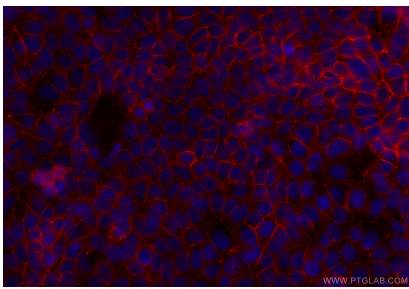
Selected Validation Data



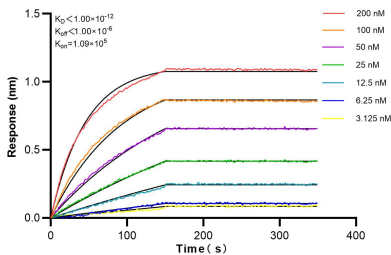
Various lysates were subjected to SDS PAGE followed by western blot with 80541-5-RR (E-cadherin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 80541-5-RR (E-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 E-cadherin antibody (80541-5-RR, Clone: 240159C10) at dilution of 1:500 and CoraLite® 594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).



Biolayer interferometry (BLI) kinetic assays of 80541-5-RR against Human E-cadherin were performed. The affinity constant is below 1 pM.