For Research Use Only

E-cadherin Recombinant antibody

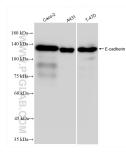
Catalog Number:80541-7-RR 1 Publications



Basic Information	Catalog Number: 80541-7-RR	GenBank Accession Nu BC141838	umber:	Purification Method: Protein A purfication	
Applications	Size: 100ul, Concentration: 400 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG14973 Tested Applications: WB, IHC, IF/ICC, ELISA	GenelD (NCBI):	Positive Contr	CloneNo.: 240159A1 Recommended Dilutions: WB 1:1000-1:8000 IHC 1:200-1:800 IF/ICC 1:50-1:500	
	Cited Applications:			co-2 cells, A431 cells, T-47D cells	
	WB	IHC : human stomach cancer tissue,			
	Species Specificity: IF/ICC : MCF-7 cells, human				
	Cited Species: mouse				
	Note-IHC: suggested antigen TE buffer pH 9.0; (*) Alternati retrieval may be performed v buffer pH 6.0	vely, antigen			
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, an 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 Pu	bmed ID Journa		Application	
			Chin Med	WB	
Storage	Storage:				
	Store at -20°C. Stable for one year af Storage Buffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C	0% glycerol pH 7.3.			
*** 20ul sizes contain 0.1% BSA					
For technical support and original validation da	ta for this product please contact:		his product is e	xclusively available under Proteinte	

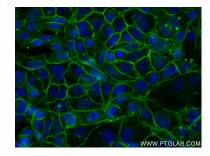
in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com other manufacturer.

Selected Validation Data

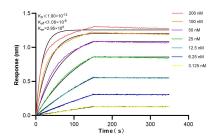


Various lysates were subjected to SDS PAGE followed by western blot with 80541-7-RR (E-cadherin antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using 80541-7-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 (4% PFA) fixed MCF-7 cells using E-cadherin antibody (80541-7-RR, Clone: 240159A1) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 80541-7-RR against Human E-cadherin were performed. The affinity constant is below 1 pM.