For Research Use Only

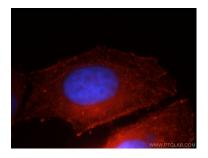
E-cadherin Polyclonal antibody

Catalog Number:20648-1-AP 6 Publications

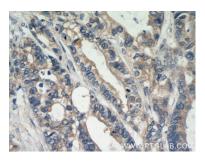


Basic Information	Catalog Number: 20648-1-AP	GenBank Accession N NM_004360	umber:	Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI):		Recommended Dilutions:	
	150ul , Concentration: 200 µg/ml by	999 UNIPROT ID: P12830		WB 1:500-1:1000 IHC 1:50-1:200 IF 1:10-1:100	
	Bradford method using BSA as the standard;				
	Source: Full Name: Rabbit codhain 1 fun				
		cadherin 1, type 1, E-cadherin			
	Isotype: IgG	(epithelial)			
		Calculated MW: 97 kDa			
		Observed MW: 100-125 kDa			
Applications	Tested Applications:		Positive Con	trols:	
	WB, IF, FC, IHC, ELISA		WB : PC-3 cells,		
	Cited Applications: WB, IF		IHC : human colon cancer tissue, human liver cancer tissue		
	Species Specificity: human, mouse, rat		IF : HepG2 ce	lls,	
	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	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. It has been regarded as a marker for spermatogonial stem cells in mice(PMID:23509752). 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. This antibody is specific to CDH1.				
Notable Publications	Author Pul	bmed ID Journ	nal	Application	
Notable Publications				Application WB	
Notable Publications	Wenhua Huang 36	293081 Int J	nal Mol Sci Ned Rep		
Notable Publications	Wenhua Huang36Tianming Liu26	293081 Int J 459119 Mol M	Mol Sci	WB	
	Wenhua Huang 36 Tianming Liu 26 Thankam S Nair 34	293081 Int J 459119 Mol M	Mol Sci 1ed Rep	WB WB	
	Wenhua Huang 36: Tianming Liu 26: Thankam S Nair 34: Storage: 34: Storage: 35: Storage Buffer: 35: PBS with 0.02% sodium azide and 50:	293081 Int J 459119 Mol M 371293 Tissu ter shipment. % glycerol pH 7.3.	Mol Sci 1ed Rep	WB WB	
Notable Publications Storage	Wenhua Huang 36: Tianming Liu 26: Thankam S Nair 34: Storage: Storage: Storage at -20°C. Stable for one year aft Storage Buffer:	293081 Int J 459119 Mol M 371293 Tissu ter shipment. % glycerol pH 7.3.	Mol Sci 1ed Rep	WB	

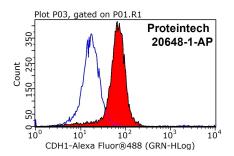
Selected Validation Data



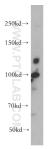
Immunofluorescent analysis of HepG2 cells, using CDH1 antibody 20648-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



Immunohistochemical analysis of paraffinembedded human colon cancer using 20648-1-AP (E-cadherin antibody) at dilution of 1:50 (under 40x lens).



1X10^6 HepG2 cells were stained with 0.2ug Ecadherin antibody (20648-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:200.



PC-3 cells were subjected to SDS PAGE followed by western blot with 20648-1-AP (E-cadherin antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.