For Research Use Only

COL4A1 Polyclonal antibody Catalog Number: 30850-1-AP 1 Publications

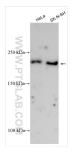


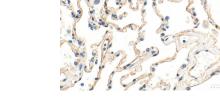
Basic Information	Catalog Number: 30850-1-AP	GenBank Accession Number: BC151220	Purification Method: Antigen affinity Purification			
	Size: 150ul , Concentration: 700 ug/ml by Nanodrop;	GeneID (NCBI): 1282 UNIPROT ID:	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500			
				Source: Rabbit	P02462	
				Isotype:	Full Name: collagen, type IV, alpha 1	
	IgG	Calculated MW:				
	Immunogen Catalog Number: AG34391	1669 aa, 161 kDa				
		Observed MW: 160-220 kDa				
	Applications	Tested Applications: WB, IHC, ELISA	Positive C	Positive Controls:		
		Cited Applications:	WB : HeLa	WB : HeLa cells, SK-N-SH cells		
IHC		IHC : hum	IHC : human lung cancer tissue, human placenta tissue			
Species Specificity: human						
Cited Species:						
mouse						
Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0		vely, antigen				
Background Information	COL4A1 (Collagen Type IV Alpha 1 Chain) encodes a major component of type IV collagen, which is an essential structural element of basement membranes in various tissues. COL4A1 forms heterotrimers with other collagen type IV chains (e.g., COL4A2) and interacts with extracellular matrix components such as laminins, proteoglycans, and perlecans. Proteolytic cleavage of the non-collagenous domain of COL4A1 produces a fragment called arresten, which has anti-angiogenic and tumor suppressor properties. Elevated expression of COL4A1 has been observed in various cancers, including hepatocellular carcinoma (HCC), where it promotes tumor growth and metastasis through the FAK-Src signaling pathway. COL4A1 is highly expressed in various tissues, including the placenta, fat, and other organs. The expression of COL4A1 in hepatocellular carcinoma. The molecular weight of OSBPL5 is 160 kDa, and it also has glycosylation modification.					
Notable Publications	Author Duk	med ID Journal	Application			
Notable Publications		omed ID Journal	Application			
Notable Publications Storage	Kaiyue Tan 399 Storage:	905060 Sci Rep	Application IHC			
	Kaiyue Tan 399 Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50	205060 Sci Rep ter shipment. % glycerol				
	Kaiyue Tan 399 Storage: Store at -20°C. Stable for one year aft Storage Buffer:	205060 Sci Rep ter shipment. % glycerol				

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

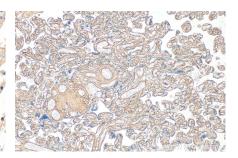
Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

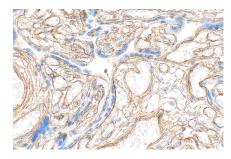




Various lysates were subjected to SDS PAGE followed by western blot with 30850-1-AP (COL4A1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 30850-1-AP (Collagen Type IV antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human placenta tissue slide using 30850-1-AP (Collagen Type IV antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).





Immunohistochemical analysis of paraffinembedded human placenta tissue slide using 30850-1-AP (Collagen Type IV antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 30850-1-AP (Collagen Type IV antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).