For Research Use Only

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

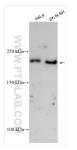


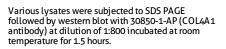
Basic Information	Catalog Number: 30850-1-AP	GenBank Accession Number: BC151220		Purification Method: Antigen affinity Purification	
				Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500	
	Immunogen Catalog Number:Calculated MW:AG343911669 aa, 161 kDa		а		
		Observed MW: 160-220 kDa			
Applications	Tested Applications: Positive Controls:				
	WB, IHC, ELISA WB : HeLa cells, SK-N-SH cells Cited Applications:			cells, SK-N-SH cells	
	IHC : human lung cancer tissue, human placenta tissue				
	Species Specificity: human				
	Cited Species: 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	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 can be regulated by transcription factors such as RUNX1, which has been shown to upregulate COL4A1 in hepatocellular carcinoma. The molecular weight of OSBPL5 is 160 kDa, and it also has glycosylation modification.				
Notable Publications	Author	Pubmed ID	Journal	Application	
	Kaiyue Tan		Sci Rep	IHC	
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer: PBS with 0.02% sodium azide an Aliquoting is unnecessary for -20	nd 50% glycerol			

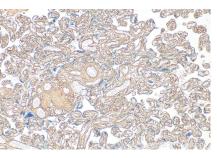
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

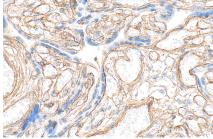
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data







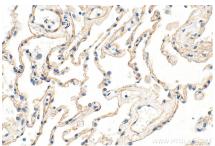


Immunohistochemical analysis of paraffin-
embedded human placenta tissue slide usingIn
embedded slide usi

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).



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).