For Research Use Only

Collagen Type XVIII Polyclonal antibody Catalog Number: 18301-1-AP 5 Publications

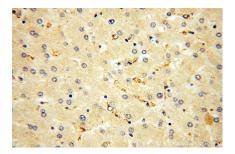
Basic Information	Catalog Number: 18301-1-AP	GenBank Accession Number: BC063833	Purification Method:	
	Concentration:	GenelD (NCBI):	Antigen affinity purification Recommended Dilutions:	
	240 ug/ml	80781	WB 1:200-1:1000	
	Source: Rabbit	UNIPROT ID: P39060	IHC 1:20-1:200 IF 1:50-1:500	
	lsotype: IgG	Full Name: collagen, type XVIII, alpha 1		
		Calculated MW: 178 kDa		
		Observed MW: 20 kDa		
Applications	Tested Applications:	Positive Controls:		
	WB, IHC, IF, ELISA	WB : hu	man kidney tissue,	
	Cited Applications: WB, IF	IHC : hu	IHC : human liver tissue,	
	Species Specificity: IF : zebrafish retina, human, zebrafish			
	Cited Species: human, rat			
	Note-IHC: suggested an TE buffer pH 9.0; (*) Al retrieval may be perfor buffer pH 6.0	ternatively, antigen		
	COL18A1 is a naturally-occurring 20-kDa C-terminal fragment derived from collagen alpha-1(XVIII) chain. It is reported to serve as an anti-angiogenic agent, similar to angiostatin and thrombospondin. It potently inhibits endothelial cell proliferation and inhibits endothelial cell angiogenesis by binding to the heparan sulfate proteoglycans involved in growth factor signaling. COL18A1 is a broad spectrum angiogenesis inhibitor and may interfere with the pro-angiogenic action of growth factors such as basic fibroblast growth factor (bFGF/FGF-2) an vascular endothelial growth factor (VEGF). This antibody raised against 1693-1706 aa of human collagen alpha-1(XVIII) chain can recognize endostatin (20 kDa) and several endostatin-related fragments of higher molecular weight (PMID: 15545970; 19358707).			
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For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

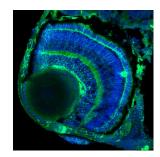
Selected Validation Data



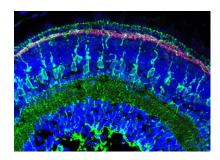
Immunohistochemical analysis of paraffinembedded human liver using 18301-1-AP (Endostatin antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human liver using 18301-1-AP (Endostatin antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescence analysis of Collagen18a1 (aka Endostatin) polyclonal antibody (18301-1-AP, green) staining on tissue sections of the zebrafish retina at 3 days post fertilisation. Dilution 1:200. Tissue fixed overnight in 4% PFA. DAPI, blue. Data generated by Natalia Jaroszynska in Professor Ryan MacDonald's lab, University College London, UK.



Immunofluorescence analysis of the zebrafish retina at 5 days post fertilisation. Collagen18a1 (aka Endostatin) polyclonal antibody (18301-1-AP, magenta). Dilution 1:200. Glutamine synthetase (66323-1-1g, green) dilution 1:500. Tissue fixed overnight in 4% PFA; DAPI, blue. Data generated by Natalia Jaroszynska in Professor Ryan MacDonald's lab, University College London, UK.



human kidney tissue were subjected to SDS PAGE followed by western blot with 18301-1-AP (Endostatin antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.