## Collagen Type III (N-terminal) Polyclonal proteintech®

Catalog Number:22734-1-AP

**Featured Product** 

507 Publications

Basic Information	Catalog Number: 22734-1-AP	GenBank Accession Number: BC028178 GeneID (NCBI): y 1281 UNIPROT ID: P02461 Full Name: collagen, type III, alpha 1 Calculated MW: 1466 aa, 139 kDa Observed MW: 140-180 kDa		Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:300-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:500-1:2000 IF-P 1:50-1:500 IF-Fro 1:50-1:500		
	Size: 150ul , Concentration: 900 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG18658					
Applications	Tested Applications: WB, IHC, IF-P, IF-Fro, IP, ELISA		Positive Con WB : mouse s	re Controls: ouse skin tissue, rat skin tissue		
	Cited Applications: WB, IHC, IF Species Specificity: human, mouse, rat		IP : mouse sk	IP : mouse skin tissue, IHC : human hepatocirrhosis tissue, human pancreas cancer tissue, mouse liver tissue, mouse kidney tissue human colon tissue, human skin cancer tissue, mouse		
			cancer tissue			
	Cited Species:	heart tissue, mouse colon tissue, human skin tissue,				
	human, mouse, rat, pig, rabbit, canine, chicken, bovine, hamster			human malignant melanoma tissue		
	Note-IHC: suggested antigen retrieval with		IF-P : human	IF-P : human colon tissue,		
	TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	IF-Fro : mouse colon tissue,				
Background Information	Type III collagen is a fibrillar forming collagen comprising three a1(III) chains and is expressed in early embryos and throughout embryogenesis (PMID: 9050868). In the adult, type III collagen is a major component of the extracellular matrix in a variety of internal organs and skin. It occurs in most soft connective tissues along with type I collagen (PMID: 2445760). COL3A1 gene encodes type III procollagen. Mutations in this gene are associated with Ehlers-Danlos syndrome types IV, and with aortic and arterial aneurysms (PMID: 10706896; 2243125; 18389341). This antibody raised against 24-152 aa of prepro a1 (III) chain of human type III procollagen detects type III procollagen at 140-180 kDa and also in some lysates reveals a 70-kDa band which has been reported and may represent a cleaved form of type III procollagen (PMID: 17424834; 19648160; 22802960).					
Notable Publications	Author Pub	med ID Jo	rnal		Application	
				Based Complement Alternat Med		
	0		ont Pharmacol		WB	
			Cell Mol 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 $^{\circ}$ C s	0,				
*** 20ul sizes contain 0.1% BSA	- *	-				
For technical support and original validation da T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA) or 1(312) (55-8408 (outside USA)	ta for this product please contact: E: proteintech@ptglab.com		This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer			

in USA), or 1(312) 455-8498 (outside USA)

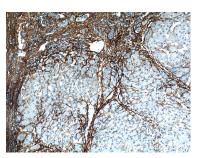
W: ptglab.com

other manufacturer.

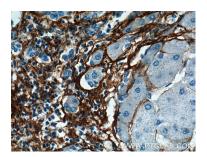
## Selected Validation Data



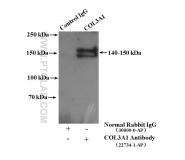
mouse skin tissue were subjected to SDS PAGE followed by western blot with 22734-1-AP (Collagen Type III (N-terminal) antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.



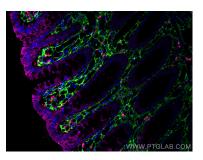
Immunohistochemical analysis of paraffinembedded human hepatocirrhosis tissue slide using 22734-1-AP (Collagen Type III (N-terminal) antibody at dilution of 1:1000 (under 10x lens).



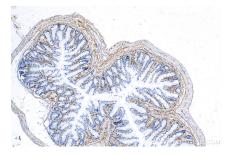
Immunohistochemical analysis of paraffinembedded human hepatocirrhosis tissue slide using 22734-1-AP (Collagen Type III (N-terminal) antibody at dilution of 1:1000 (under 40x lens).



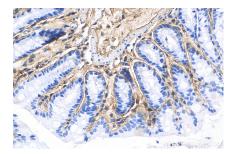
IP result of anti-Collagen Type III (N-terminal) (IP:22734-1-AP, 4ug; Detection:22734-1-AP 1:500) with mouse skin tissue lysate 3200ug.



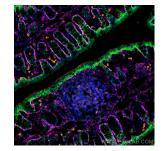
Immunofluorescent analysis of (4% PFA) fixed human colon tissue using Collagen Type III (Nterminal) antibody (22734-1-AP) at dilution of 1:200 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L), Cytokeratin 20 antibody (60183-1-Ig, Clone: 4010A4, Magenta), Coralite®594 CD68 antibody (CL594-25747, red).



Immunohistochemical analysis of paraffinembedded mouse colon tissue slide using 22734-1-AP (Collagen Type III (N-terminal) antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse colon tissue slide using 22734-1-AP (Collagen Type III (N-terminal) antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescence of mouse colon: Frozen OCT-embedded mouse colon sections were stained with anti-E-cadherin antibody (20874-1-AP) labeled with Coralite488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2, green) in the frist step,anti-CD45 antibody (80297-1-RR) labeled with FlexAble Coralite Plus 555 Kit (KFA002, orange) in the second step,anti-Collagen Type III antibody (22734-1-AP) labeled with FlexAble Coralite647 Kit (KFA003, magenta)