For Research Use Only

Collagen Type I Polyclonal antibody Catalog Number: 14695-1-AP 1086 Publications



Basic Information	Catalog Number: 14695-1-AP	-		: Purification Method: Antigen affinity purification	
	Size: 150ul, Concentration: 750 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG6281	GenelD (NCBI):	Recommended Di WB 1:1000-1:4000 IP 0.5-4.0 ug for 1 protein lysate IHC 1:500-1:2000	lutions:)	
Applications	Tested Applications:		Positive Controls:		
	WB, IHC, FC (Intra), IP, ELISA Cited Applications: WB, IHC, IF, FC (Intra), IP, CoIP		WB : pig skin tissue, human placenta tissue, MG-63 cells, Saos-2 cells, U-87 MG cells		
	Species Specificity:		IP : U-87 MG cells,		
	human, pig		IHC : human skin cancer tissue, human colon tissue, human oesophagus cancer tissue, human placenta		
	Cited Species: human, mouse, rat, pig, rabbit, canir toad	tissue	e, numan placenta		
	Note-IHC: suggested antigen TE buffer pH 9.0; (*) Alternat retrieval may be performed v buffer pH 6.0	ively, antigen			
Background Information	Type I collagen, the major structural component of connective tissues such as skin, tendon and bone, is the most abundant and widely expressed collagen in humans (PMID: 7620364; 8645190; 9016532). Type I collagen is a heterotrimer comprising one alpha 2(I) and two alpha 1(I) chains which are encoded by the unlinked loci COL1A2 and COL1A1 respectively. Type I collagen has a molecular mass of about 250-300 kDa, while the alpha 2(I) chain has a molecular weight of about 100-140 kDa. Mutations in COL1A2 gene are associated with osteogenesis imperfecta, Ehlers-Danlos syndrome, idiopathic osteoporosis, and atypical Marfan syndrome. This antibody raised against 1017-1366 aa of human pro-alpha 2 chain of type I collagen can recognize collagen alpha 2(1) chain and C terminal propeptide of pro-alpha 2(1) chain.				
Notable Publications	Author Pu	bmed ID Journa	l	Application	
	Lishu Feng 27	689865 Angle (Drthod	WB	
	Chen Chen 36	212944 Evid Ba	sed Complement Alternat Med	IF	
	Kun Zhao 36	167556 Biol Di	rect	WB	
Storage	Storage: Store at -20°C. Stable for one year a Storage Buffer: PBS with 0.02% sodium azide and 5 Aliguoting is unnecessary for -20°C	0% glycerol, pH7.3			
*** 20ul sizes contain 0.1% BSA	1				
For technical support and original validation da	hnical support and original validation data for this product please contact: 88) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com		This product is exclusively available under Proteinte Group brand and is not available to purchase from a		

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com W: ptglab.com

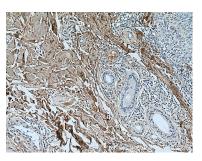
Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

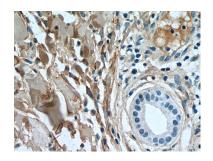


pig skin tissue were subjected to SDS PAGE followed by western blot with 14695-1-AP (Collagen Type I antibody) at dilution of 1:2000

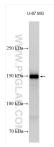
incubated at room temperature for 1.5 hours.



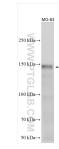
Immunohistochemical analysis of paraffinembedded human skin cancer tissue slide using 14695-1-AP (Collagen Type I antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



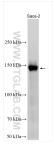
Immunohistochemical analysis of paraffinembedded human skin cancer tissue slide using 14695-1-AP (Collagen Type I antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



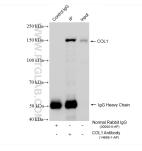
Various lysates were subjected to SDS PAGE followed by western blot with 14695-1-AP (Collagen Type I antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 14695-1-AP (Collagen Type I antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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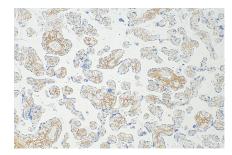
IP result of anti-Collagen Type I (IP:14695-1-AP, 4ug; Detection:14695-1-AP 1:2000) with U-87 MG cells lysate 1920 ug.

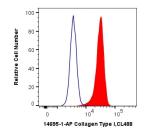


Immunohistochemical analysis of paraffinembedded human colon tissue slide using 14695-1-AP (Collagen Type I antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human colon tissue slide using 14695-1-AP (Collagen Type I antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).





Immunohistochemical analysis of paraffinembedded human placenta tissue slide using 14695-1-AP (Collagen Type I antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). 1X10^6 SW480 cells were intracellularly stained with 0.2 ug Anti-Human Collagen Type I (14695-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).