## For Research Use Only

## Collagen Type I Monoclonal antibody Catalog Number:67288-1-Ig 246 Publications



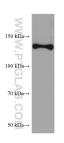
Basic Information	Catalog Number: 67288-1-lg	GenBank Accession Nun NM_000088		Purification Method: Protein G purification CloneNo.: 1E9A7	
	Size:	GenelD (NCBI):			
	150ul , Concentration: 1000 ug/ml by Nanodrop; Source: Mouse Isotype: IgG1				
		UNIPROT ID: P02452		Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:2500-1:10000 IF-P: 1:200-1:800	
		Full Name:	IHC: 1:2500-1		
		collagen, type I, alpha 1	IF-P: 1:200-1:8		
		Calculated MW: 139 kDa			
		Observed MW: 100-140 kDa 200kDa			
Applications	Tested Applications:		Positive Controls: WB : pig colon tissue, human cervical cancer tissue, human placenta tissue, MG-63 cells, pig lung tissue, pig skin tissue		
	WB, IHC, IF-P, ELISA	,			
	Cited Applications: WB, IHC, IF, CoIP				
	Species Specificity:	1	IHC : human breast cancer tissue, human colon tissue,		
	human, pig	I	human colon cancer tissue		
	Cited Species: human, pig, rabbit, zebrafish				
	Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, 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. Mutations in COL1A1 are associated with osteogenesis imperfecta types I-IV, Ehlers- Danlos syndrome type VIIA, Ehlers-Danlos syndrome Classical type, Caffey Disease and idiopathic osteoporosis. This antibody raised against a synthesized peptide corresponding to 1206-1218 aa of human pro-alpha 1 chain of type I collagen recognize collagen alpha-1(I) chain. The presence of unprocessed, intermediate, and mature chains of type I collagen was clearly detected only in static constructs. Indeed, in sponges cultured under perfusion the presence of type I collagen was mainly restricted to mature chains, suggesting that HACs were no longer actively producing type I collagen (PMID: 27584727). It is reported that the molecular weight is 200kDa(PMID: 28526934).				
Notable Publications	Author Pubr	ned ID Journal		Application	
	Siyuan Dong 3306	52455 PeerJ		IHC	
	Fei Yao 3616	53271 Inflamm	Regen	WB	
	Xia Niu 3468	31175 Pharmace	euticals (Basel)	WB	
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C s	% glycerol, pH7.3			
*** 20ul sizes contain 0.1% BSA	. a quoting is dimeters bury for 20 C 3				
			s product is exclusively ava		

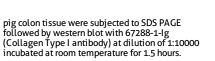
1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

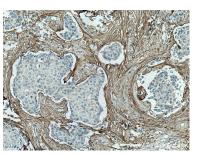
: proteintech@ptglab.com W: ptglab.com

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

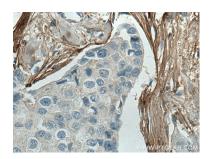
## Selected Validation Data



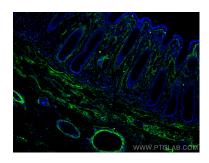




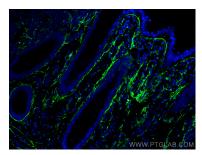
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 67288-1-1g (Collagen Type I antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



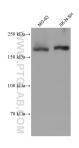
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 67288-1-1g (Collagen Type I antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



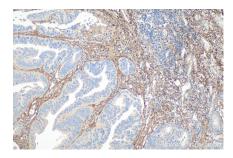
Immunofluorescent analysis of (4% PFA) fixed human colon cancer tissue using Collagen Type I antibody (67288-1-Ig, Clone: 1E9A7) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human colon cancer tissue using Collagen Type I antibody (67288-1-Ig, Clone: 1E9A7) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 67288-1-1g (Collagen Type I antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 67288-1-Ig (Collagen Type I antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).