For Research Use Only

Collagen Type I Polyclonal antibody Catalog Number: 14695-1-AP 1159 Publications



Basic Information	Catalog Number: 14695-1-AP	· ·		r: Purification Method: Antigen affinity purification	
	Size: 150ul, Concentration: 750 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG6281	GenelD (NCBI):	Recommended D WB: 1:1000-1:400 IP: 0.5-4.0 ug for : protein lysate IHC: 1:500-1:2000 FC (Intra): 0.20 ug	ilutions:)0 1.0-3.0 mg of total) g per 10^6 cells in a	
Applications	Tested Applications:		Positive Controls:		
	WB, IHC, FC (Intra), IP, ELISA Cited Applications:		WB : pig skin tissue, human plac cells, Saos-2 cells, U-87 MG cells	: pig skin tissue, human placenta tissue, MG-63 Is, Saos-2 cells, U-87 MG cells	
	WB, IHC, IF, FC (Intra), IP, CoIP		IP: U-87 MG cells,		
	Species Specificity: human, pig	IHC : human skin cancer tiss human oesophagus cancer t			
	Cited Species: human, mouse, rat, pig, rabbit, canine, chicken, bovine, toad		ssue C (Intra) : SW480 cells,		
	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. 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 raisee against 1017-1366 aa of human pro-alpha 2(1) chain of type I collagen can recognize collagen alpha 2(1) chain and C terminal propeptide of pro-alpha 2(1) chain.				
	has a molecular weight of about 100- imperfecta, Ehlers-Danlos syndrome, against 1017-1366 aa of human pro-a	, idiopathic osteoporosi alpha 2 chain of type l c		osteogenesis This antibody raise	
Notable Publications	has a molecular weight of about 100- imperfecta, Ehlers-Danlos syndrome, against 1017-1366 aa of human pro- terminal propeptide of pro-alpha 2(1	, idiopathic osteoporosi alpha 2 chain of type l c) chain.	collagen can recognize collagen al	osteogenesis This antibody raise pha 2(1) chain and	
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Notable Publications Storage	has a molecular weight of about 100- imperfecta, Ehlers-Danlos syndrome, against 1017-1366 aa of human pro- terminal propeptide of pro-alpha 2(1 Author Pub Lishu Feng 276 Chen Chen 362	, idiopathic osteoporosi alpha 2 chain of type l c) chain. med ID Journa 89865 Angle 12944 Evid B 67556 Biol Di ter shipment.	ollagen can recognize collagen al al Orthod ased Complement Alternat Med	osteogenesis This antibody raise pha 2(1) chain and Application WB IF	
	has a molecular weight of about 100- imperfecta, Ehlers-Danlos syndrome, against 1017-1366 aa of human pro- terminal propeptide of pro-alpha 2(1 Author Pub Lishu Feng 276 Chen Chen 362 Kun Zhao 361 Storage: Store at -20°C. Stable for one year aft Storage Buffer:	, idiopathic osteoporosi alpha 2 chain of type l c) chain. med ID Journa 89865 Angle 12944 Evid B 67556 Biol Di ter shipment.	ollagen can recognize collagen al al Orthod ased Complement Alternat Med	osteogenesis This antibody raise pha 2(1) chain and Application WB IF	

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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.



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.



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).