

For Research Use Only

Collagen Type I Polyclonal antibody



Catalog Number: 14695-1-AP **346 Publications**

Basic Information

Catalog Number: 14695-1-AP	GenBank Accession Number: BC054498	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 500 µg/ml by Nanodrop and 320 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1278	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:500-1:2000
Source: Rabbit	Full Name: collagen, type I, alpha 2	
Isotype: IgG	Calculated MW: 1366 aa, 130 kDa	
Immunogen Catalog Number: AG6281	Observed MW: 120-130 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

IF, IHC, IP, WB

Species Specificity:

mouse, human, pig, rat

Cited Species:

bovine, canine, human, mouse, pig, rabbit, rat, toad

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: pig skin tissue, mouse lung tissue, rat lung tissue, human placenta tissue, human kidney tissue

IHC: human skin cancer tissue, human colon tissue, human oesophagus cancer tissue

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(I) chain and C-terminal propeptide of pro-alpha 2(I) chain.

Notable Publications

Author	Pubmed ID	Journal	Application
Lishu Feng	27689865	Angle Orthod	WB
Wenchao Gu	31557398	J Cell Mol Med	WB, IF
Yu Sun	34562065	J Cell Mol Med	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

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

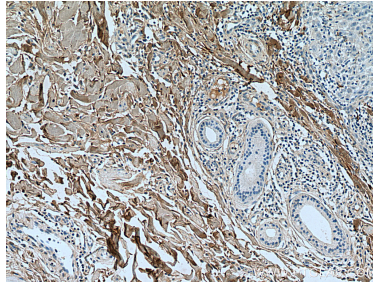
E: proteintech@ptglab.com
W: ptglab.com

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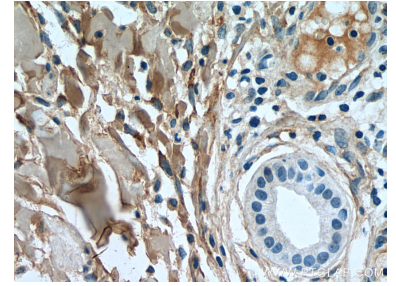
Selected Validation Data



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 paraffin-embedded 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 paraffin-embedded 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).