For Research Use Only

Collagen Type I Polyclonal antibody

Catalog Number: 14695-1-AP

765 Publications



Basic Information

GenBank Accession Number: Catalog Number:

14695-1-AP BC054498 GeneID (NCBI): Size:

150ul, Concentration: 500 µg/ml by 1278 Full Name:

Source: collagen, type I, alpha 2

Rabbit Calculated MW: Isotype: 1366 aa, 130 kDa IgG Observed MW: Immunogen Catalog Number: 120-130 kDa

AG6281

Positive Controls:

WB: pig skin tissue, human placenta tissue

IHC: human skin cancer tissue, human colon tissue.

Purification Method:

WB 1:1000-1:4000 IHC 1:500-1:2000

Antigen affinity purification

Recommended Dilutions:

human oesophagus cancer tissue

Applications

Tested Applications: FC, IHC, WB, ELISA Cited Applications: FC, IF, IHC, IP, WB Species Specificity:

human, pig Cited Species:

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

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

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 l collagen can recognize collagen alpha 2(1) chain and Cterminal propeptide of pro-alpha 2(1) chain.

Notable Publications

Author	Pubmed ID	Journal	Application
Lishu Feng	27689865	Angle Orthod	WB
Chen Chen	36212944	Evid Based Complement Alternat Med	IF
Kun Zhao	36167556	Biol Direct	WB

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

*** 20ul sizes contain 0.1%BSA

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)

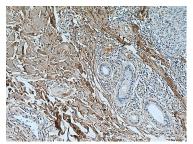
E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

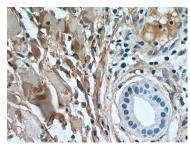
Selected Validation Data



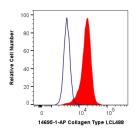
pig skin tissue were subjected to SDS PAGE followed by western blot with 14695-1-AP (Collagen Type I antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).



1X10^6 SW480 cells were intracellularly stained with 0.4 ug Anti-Human Collagen Type I (14695-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit I gG(H+L) at dilution 1:1000 (red.), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).