

Collagen I Polyclonal Antibody

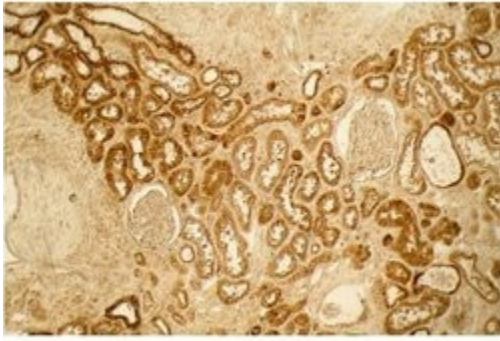
Product Details	
Size	100 µg
Species	Bovine, Human, Mouse, Rat
Published Species	Artificial Control, Human
Expression System	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Collagen type I extracted and purified from human and bovine placenta by limited pepsin digestion and selective salt precipitation.
Form	Liquid
Concentration	1.0 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	0.125M sodium borate, pH 8.0, with 5mM EDTA, 0.075M NaCl
Contains	0.01% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2260734

Applications	Tested Dilution	Publications
ELISA (ELISA)	1:5000-1:50000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:200	1 Publication
Immunoprecipitation (IP)	1:100	-
Western Blot (WB)	1:1000-1:10,000	5 Publications
Dot blot (DB)	-	1 Publication
Flow Cytometry (Flow)	-	1 Publication
Immunocytochemistry (ICC)	-	1 Publication
Immunofluorescence (IF)	-	1 Publication
Immunohistochemistry (IHC)	-	3 Publications

Product Specific Information

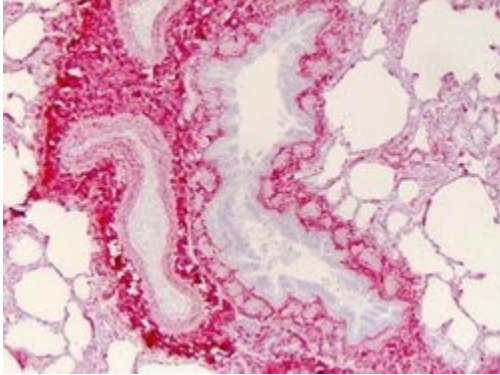
Some class-specific anti-collagens are specific for three-dimensional epitopes, resulting in diminished reactivity with denatured collagen or formalin-fixed, paraffin embedded tissues. This antibody reacts with most mammalian Type I collagens and has negligible cross-reactivity with Type II, III, IV, V or VI collagens. Cross-reactivity with other human serum proteins and non-collagen extracellular matrix proteins is negligible. Western blot: this preparation results in a native conformation of the protein. It is recommended not to add 2-ME or DTT in lysis buffer and not boiling the sample.

Product Images For Collagen I Polyclonal Antibody



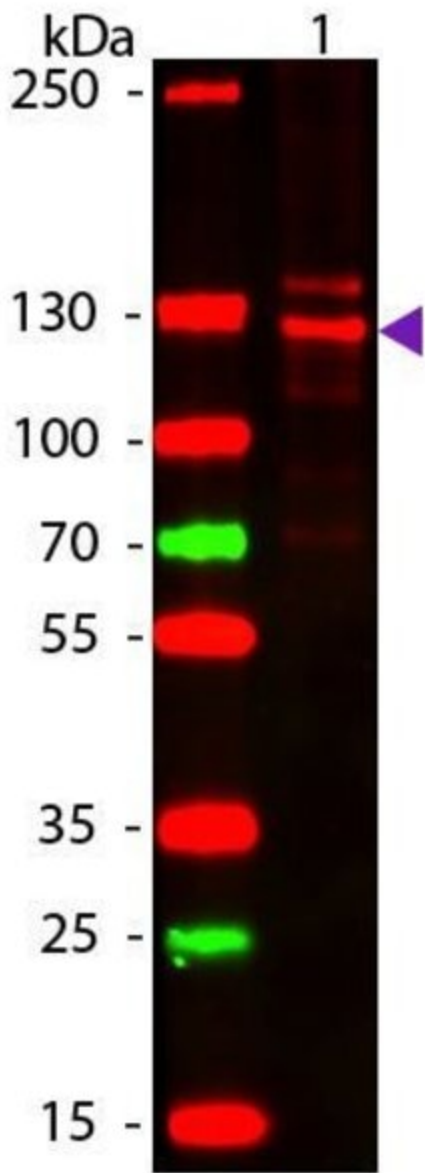
Collagen I Antibody (PA1-26204) in IHC (P)

Immunohistochemistry of Collagen I was performed in formalin fixed, paraffin embedded normal kidney using Collagen I Polyclonal Antibody (Product # PA1-26204) at a dilution of 1:100 for 4 hours at room temperature. A peroxidase goat anti-rabbit was used as a secondary antibody at 1:10,000 for 45 min at RT. Localization: Distal tubules in normal kidney tissue. Note the absence of staining of glomeruli. Staining: antibody as precipitated red signal with a hematoxylin purple nuclear counterstain. Antigen retrieval: No antigen retrieval was performed.



Collagen I Antibody (PA1-26204) in IHC (P)

Immunohistochemistry of Collagen I was performed in formalin fixed, paraffin embedded human lung tissue using Collagen I Polyclonal Antibody (Product # PA1-26204) at a dilution of 1:400. A peroxidase goat anti-rabbit was used as a secondary antibody at 1:10,000 for 45 min at RT. Localization: Strong staining was observed in the extracellular matrix of the lung. Epithelial cells were negative. Staining: antibody as precipitated red signal with a hematoxylin purple nuclear counterstain.



Collagen I Antibody (PA1-26204) in WB

Western blot analysis of Human Collagen Type I was performed by loading 50 ng of Human Collagen Type 1 onto a membrane and blotting with a Collagen I Polyclonal Antibody (Product # PA1-26204) at a dilution of 1:1,000 overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:20,000 for 30 min at RT. Block for 30 min at RT. Predicted/Observed size: 139 and 130 kDa.

[View more figures on thermofisher.com](https://www.thermofisher.com)

13 References

Western Blot (5)

Stem cell research and therapy

YBX-1 mediated sorting of miR-133 into hypoxia/reoxygenation-induced EPC-derived exosomes to increase fibroblast angiogenesis and MEndoT.

"Published figure using Collagen I polyclonal antibody (Product # PA1-26204) in Western Blot"

Authors: Lin F,Zeng Z,Song Y,Li L,Wu Z,Zhang X,Li Z,Ke X,Hu X

Species
Not Applicable

Dilution
Not Cited

Year
2019

COPD

Simvastatin Increases the Ability of Roflumilast N-oxide to Inhibit Cigarette Smoke-Induced Epithelial to Mesenchymal Transition in Well-differentiated Human Bronchial Epithelial Cells in vitro.

"PA1-26204 was used in immunocytochemistry and western blot to discuss drugs that prevent the epithelial-mesenchymal transition."

Authors: Milara J,Peiró T,Serrano A,Artigues E,Aparicio J,Tenor H,Sanz C,Cortijo J

Species
Human

Dilution
Not Cited

Year
2015

[View more WB references on thermofisher.com](#)

Flow Cytometry (1)

Scientific reports

Morphological and Molecular Changes in Juvenile Normal Human Fibroblasts Exposed to Simulated Microgravity.

"PA1-26204 was used in Flow cytometry/Cell sorting to show simulated microgravity causes changes in the cytoskeleton, extracellular matrix, focal adhesion and growth behaviour of normal human dermal fibroblasts and to identify the factors involved in the assembly of the fibroblasts."

Authors: Buken C,Sahana J,Corydon TJ,Melnik D,Bauer J,Wehland M,Krüger M,Balk S,Abuagela N,Infanger M,Grimm D

Species
Human

Dilution
1:100

Year
2019

Immunohistochemistry (3)

Tissue engineering. Part C, Methods

Fully Three-Dimensional Bioprinted Skin Equivalent Constructs with Validated Morphology and Barrier Function.

"Published figure using Collagen I polyclonal antibody (Product # PA1-26204) in Immunohistochemistry"

Authors: Derr K,Zou J,Luo K,Song MJ,Sittampalam GS,Zhou C,Michael S,Ferrer M,Derr P

Species
Artificial Control

Dilution
Not Cited

Year
2019

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

[IF \(1\)](#) [IHC \(P\) \(1\)](#) [ICC \(1\)](#) [DB \(1\)](#)

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