

Datasheet for ABIN5596830

anti-COL3A1 antibody



5 Images

5 Publications



Overview

Quantity:	100 μg
Target:	COL3A1
Reactivity:	Human, Cow, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COL3A1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunoprecipitation (IP), Dot Blot (DB), Flow Cytometry (FACS), Fluorescence Microscopy (FM)

Product Details

Purpose:	Collagen Type III Antibody
Immunogen:	Immunogen: Collagen Type III from human and bovine placenta Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	Some class-specific anti-collagens may be specific for three-dimensional epitopes which may result in diminished reactivity with denatured collagen or formalin-fixed, paraffin embedded tissues.
Characteristics:	Synonyms: rabbit anti-Collagen Type III antibody, Collagen type III alpha 1 antibody, Collagen type III alpha antibody, EDS4A antibody, Ehlers Danlos syndrome type IV, autosomal dominant antibody, Fetal collagen antibody, COL3A1, Collagen alpha-1 (III) chain
Purification:	Collagen III Antibody has been prepared by immunoaffinity chromatography using immobilized

Product Details

Product Details	
	antigens.
Sterility:	Sterile filtered
Target Details	
Target:	COL3A1
Alternative Name:	COL3A1 (COL3A1 Products)
Background:	Background: Collagens are highly conserved throughout evolution and are characterized by an uninterrupted "Glycine-X-Y" triplet repeat that is a necessary part of the triple helical structure. For these reasons, it is often extremely difficult to generate antibodies with specificities to collagens. The development of 'type' specific antibodies is dependent on NON-DENATURED three-dimensional epitopes. Rockland extensively purifies collagens for immunization from human and bovine placenta and cartilage by limited pepsin digestion and selective salt precipitation. This preparation results in a native conformation of the protein. Antibodies are isolated from rabbit antiserum and are extensively cross-adsorbed by immunoaffinity purification to produce 'type' specific antibodies. Greatly diminished reactivity and selectivity of these antibodies will result if denaturing and reducing conditions are used for SDS-PAGE and immunoblotting. Ideal for investigators involved in Cell Biology, Signal Transduction and Stem Cell research.
Gene ID:	1281
NCBI Accession:	NP_000081
UniProt:	P02461
Pathways:	Autophagy, Growth Factor Binding
Application Details	
Application Notes:	Flow Cytometry Dilution: User Optimized Immunohistochemistry Dilution: 1:50 - 1:200 Application Note: Anti-Collagen Type III has been tested by dot Blot, western blot, and IHC and is useful for indirect trapping ELISA for quantitation of antigen in serum using a standard curve immunoprecipitation, native (non-denaturing, non-dissociating) PAGE, immunohistochemistry, and western blotting for highly sensitive qualitative analysis. Western Blot Dilution: 1:1,000 - 1:10,000 Immunoprecipitation Dilution: 1:100

Application Details

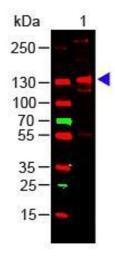
ELISA Dilution: 1:5,000 - 1:50,000 IF Microscopy Dilution: User Optimized Other: User Optimized Restrictions: For Research Use only Handling Format: Liquid Concentration: 1,0 mg/mL Buffer: Buffer: Buffer: Buffer: Buffer: Buffer: Buffer: Buffer: Sodium Aprilum Preservative: Storage: 4 *C, 20 *C Storage: 4 *C, 20 *C Storage: A *C, 20 *C Storage: Andrews, Marttala, Macarak, Rosenbloom, Uitto: *Keloid Pathogenesis: Potential Role of Cellular Tibronectin with the EDA Domain.* in: *The Journal of Investigative dermatology, Vol. 135, Issue 7, pp. 1921-1924, (2015) (PubMed). Pohjotamáki, Williams, Boettger, Goffart, Kirn, Suomalainen, Moraes, Braun: *Overexpression of Twinkle-helicase protects cardiomyocytes from genotoxic stress caused by reactive oxygen species: in: Proceedings of the National Academy of Sciences of the United States of America, Vol. 110, Issue 48, pp. 19408-13, (2014) (PubMed). Oliczyk, Wissowski, Komosinska-Vassev, Stojko, Klirnek, Olszyk, Kozma: 'Propolis Modifies Collagen Types I and III Accumulation in the Matrix of Burnt Tissue.* in: Evidence-based		
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complementary and alternative medicine: eCAM, Vol. 2013, pp. 423809, (2013) (PubMed).

Koźma, Wisowski, Kusz, Olczyk: "The role of decorin and biglycan dermatan sulfate chain(s) in fibrosis-affected fascia." in: **Glycobiology**, Vol. 21, Issue 10, pp. 1301-16, (2012) (PubMed).

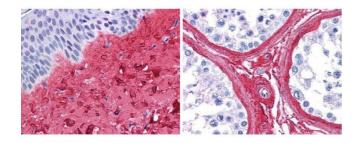
Pinheiro, Ferreira, Kitten, da Silveira, da Silva, Santos, Gava, Castro, Magalhães, da Mota, Botelho-Santos, Bader, Alenina, Santos, Simoes E Silva: "Genetic deletion of the angiotensin-(1-7) receptor Mas leads to glomerular hyperfiltration and microalbuminuria." in: **Kidney international**, Vol. 75, Issue 11, pp. 1184-1193, (2009) (PubMed).

Images



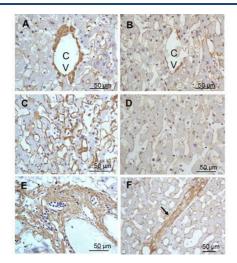
Western Blotting

Image 1. Western Blot of Rabbit Anti-COLLAGEN III Antibody Lane 1: Human Collagen III Load: 100 ng per lane Primary antibody: Collagen III Antibody at 1:1000 o/n at 4°C Secondary antibody: 649 Goat anti-rabbit at 1:20,000 for 30 min at RT Block: ABIN925618 for 30 min at RT Predicted/Observed size: 138 kDa, 138 kDa



Immunohistochemistry

Image 2. anti collagen III antibody (600-401-105 Lot 26016, 1:400, 45 min RT) showed strong staining in FFPE sections of human skin(left, dermis) with moderate to strong red staining and testis (right) where strong staining was observed within connective tissue between seminiferous tubules. The antibody showed strong extracellular staining within connective tissues across many organs with minimal background staining. Slides were steamed in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes for antigen retrieval. Images provided courtesy of LifeSpan Biosciences, Seattle, WA



Immunohistochemistry

Image 3. Immunohistochemistry of Rabbit Anti-collagen type III antibody. Tissue: right lobe of the liver section. A:Central Vein (CV) fibrosis, B: Non-fibrotic CV, C: Perisinusodial fibrosis, D: Non-fibrotic area, E: Protat tract fibrosis, F: Septal fibrosis (arrow). Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Anti-collagen type III at 1:500 for 4°C for 24hr. Secondary antibody: Peroxidase biotin-streptavidin rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Anti-collagen type III is intra and extracellular. Staining: 3.3'-diaminobenzidine tetrahydrochloride was used as the chromogen. Nuclei were counterstained purple with hematoxylin.

Please check the product details page for more images. Overall 5 images are available for ABIN5596830.





Successfully validated (Immunohistochemistry (IHC))

by MS Validated Antibodies

Report Number: 300050

Date: Aug 22 2023

Target:	COL3
Lot Number:	47783
Method validated:	Immunohistochemistry (IHC)
Positive Control:	Human TMA
	Mouse monoclonal anti-COL3 antibody clone FH-7A
	rabbit monoclonal anit-COL3 antibody HL1906
Notes:	Passed. The anti-COL3 antibody ABIN5596830 stains collagen III in formalin-fixed tissues
	consistently with expected staining pattern.
Primary Antibody:	ABIN5596830
Secondary Antibody:	EnVision Polymer-HRP mouse/rabbit Kit, Dako REAL, K5007
Protocol:	Slide preparation
	 Mount 2,5 μm FFPE tissue sections on superfrost slides.
	 Deparaffinize tissue sections 3x 5 min in xylene.
	 Rehydrate tissue sections in a descending ethanol series for 1 min each 100%, 96%, and 80% ethanol.
	 Rinse tissue sections for 5 min in TBST buffer (DAKO, K8000).
	Epitope retrieval
	 Autoclave tissue sections for 5 min at 121 °C in 1x Tris-EDTA-citrate buffer pH7.8 (20x Tris-EDTA-citrate buffer stock solution: 5 g Trizma base (Sigma-Aldrich, T1503), 10 g EDTA (Merck, 1.08418), 6.4g tri-sodium citrate (Sigma-Aldrich, C0909), adjust to pH 7.8 using HCL 1 M, ad 1 L with dH₂O).
	 Rinse tissue sections for 5 min in TBST buffer.
	Peroxidase blocking
	o Incubate tissue sections for 10 min in Peroxidase-Blocking Solution (Dako REAL, S2023).
	Rinse tissue sections 2x for 5 min in TBST buffer.Antibody incubation
	 o Dilute primary rabbit anti-collagen III antibody (antibodies-online, ABIN5596830, lot
	2

o Cover tissue section with 100-200 µl diluted antibody.

o Incubate tissue sections for 1 h at 37 °C in a moist chamber.

47783) diluted 1:112.5, 1:225, or 1:450 in antibody diluent (Dako REAL, S2022).

- Rinse tissue sections for 5 min in TBST buffer.
- o Apply EnVision Polymer-HRP mouse/rabbit Kit (Dako REAL, K5007) according to manufacturer's recommendation.
- Rinse tissue sections 2x for 5 min in TBST buffer.

Staining

- o Cover slides for 10 min with DAB-Chromogen (EnVision Polymer-HRP mouse/rabbit Kit, Dako REAL, K5007).
- Wash slides thoroughly with dH₂O.
- o Counterstain for 15 sec with Hematoxylin (Mayers Hematoxylin: 200ml ddH₂O, 0,2g Hematoxylin (Serva, 24420.02), 10 g aluminium potassium sulfate dodecahydrate (Merck, 1.01047), 0,04 g sodium iodate (Merck, 1.06525), 10 g chloral hydrate (Sigma-Aldrich, 15307)).
- Develop for 15 sec in H₂O.
- Dehydrate tissue sections in an ascending ethanol series for 1 min each 80%, 96%, 100% ethanol.
- Wash tissue sectiona 3x 5 min in xylene.
- Apply mounting medium and coverslips.
- · Image acquisition
 - o Acquire images using a Galileo TMAtic (ISENET).

Experimental Notes:

- For antibody comparison an antibody test TMA was used that contained 80 normal tissues from 21 different organs and 95 neoplastic tissues from 18 different tumor types.
- The anti-COL3 antibody ABIN5596830 tends to cause a rather ubiquitous cytoplasmic staining of all kinds of cells including epithelial cells. This cytoplasmic staining is reduced to a tolerable level at dilutions of 1:225 and less. At such dilutions, ABIN5596830 stains fibrillar structures – also detected by the two reference antibodies - at weak to moderate intensity. Based on the identical staining pattern obtained by three different collagen III antibodies, these fibrillar staining's are likely due to a binding of the antibodies to collagen III. Collagen III staining is typically located adjacent to epithelial structures, in smooth muscles or around vessels of all sizes, and in the stroma of tumors.
- ABIN5596830 cross-reacts with some inflammatory cells in lymph nodes.



Validation image no. 1 for anti-Collagen, Type III, alpha 1 (COL3A1) antibody (ABIN5596830)

IHC staining of the stroma in colorectal cancer with anticollagen III antibody ABIN5596830 diluted 1:225 shows fibrillar collagen III staining.



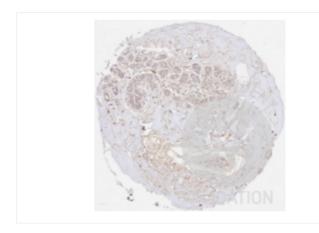
Validation image no. 2 for anti-Collagen, Type III, alpha 1 (COL3A1) antibody (ABIN5596830)

IHC staining of squamous cell carcinoma of the oral cavity with anti-collagen III antibody ABIN5596830 diluted 1:225 shows a distinct fibrillar collagen III staining of the stroma.



Validation image no. 3 for anti-Collagen, Type III, alpha 1 (COL3A1) antibody (ABIN5596830)

IHC staining of heart tissue with anti-collagen III antibody
ABIN5596830 diluted 1:225 shows distinct fibrillar collagen
III staining surrounding each hear muscle cell.



Validation image no. 4 for anti-Collagen, Type III, alpha 1 (COL3A1) antibody (ABIN5596830)

IHC staining of non-cancerous breast tissue with anticollagen III antibody ABIN5596830 diluted 1:225 shows considerable sclerosis.