



Datasheet for ABIN669981
anti-COL3 antibody (AA 1301-1400)



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5 Images

11 Publications

Overview

Quantity:	100 µL
Target:	COL3
Binding Specificity:	AA 1301-1400
Reactivity:	Human, Rat, Mouse, Dog, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COL3 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Collagen alpha 1(III) chain (C-terminal propeptide)
Isotype:	IgG
Specificity:	This antibody is produced with an immunogen contained within the COL1I propeptide region, it will only recognize the full length Collagen III protein and not the mature form.
Cross-Reactivity:	Dog, Human, Mouse, Rabbit, Rat
Predicted Reactivity:	Cow,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	COL3
Alternative Name:	Collagen 3 (COL3 Products)
Background:	Synonyms: EDS4A, Collagen alpha-1(III) chain, COL3A1 Background: Collagen type III occurs in most soft connective tissues along with type I collagen. Involved in regulation of cortical development. Is the major ligand of GPR56 in the developing brain and binding to GPR56 inhibits neuronal migration and activates the RhoA pathway by coupling GPR56 to GNA13 and possibly GNA12.
Gene ID:	1281
UniProt:	P02461

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

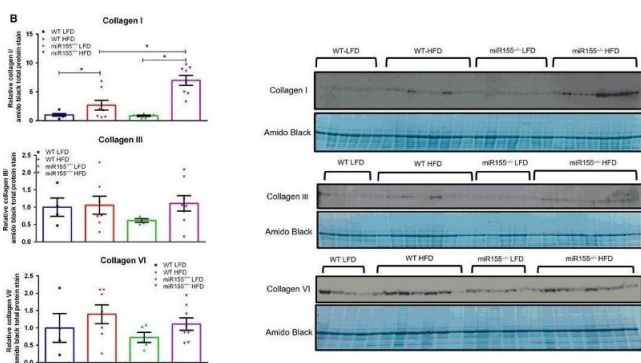
Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

- Product cited in: Velázquez, Enos, Carson, Cranford, Bader, Sougiannis, Pritchett, Fan, Carson, Murphy: "miR155 deficiency aggravates high-fat diet-induced adipose tissue fibrosis in male mice." in: **Physiological reports**, Vol. 5, Issue 18, (2018) ([PubMed](#)).
- Bai, Wu, Hong, Zhang, Liu, Chen: "Anti-fibrotic effect of Sedum sarmentosum Bunge extract in kidneys via the hedgehog signaling pathway." in: **Molecular medicine reports**, Vol. 16, Issue 1, pp. 737-745, (2017) ([PubMed](#)).
- Yu, Liu, Sun, Wang, Wang, Zhao, Dai, Zhao, Zhang, Li, Han, Lu, Dong, Liu, Yu, Li: "Chronic obstructive sleep apnea promotes aortic remodeling in canines through miR-145/Smad3 signaling pathway." in: **Oncotarget**, Vol. 8, Issue 23, pp. 37705-37716, (2017) ([PubMed](#)).
- Yang, Zhao, Wang, Liu, Ma, Huang, Liu: "Isolation and biological characterization of tendon-derived stem cells from fetal bovine." in: **In vitro cellular & developmental biology. Animal**, Vol. 52, Issue 8, pp. 846-56, (2017) ([PubMed](#)).
- Zhu, Hu, Yu, Ren, Hu: "High Molecular Weight Hyaluronic Acid Inhibits Fibrosis of Endometrium." in: **Medical science monitor : international medical journal of experimental and clinical research**, Vol. 22, pp. 3438-3445, (2016) ([PubMed](#)).

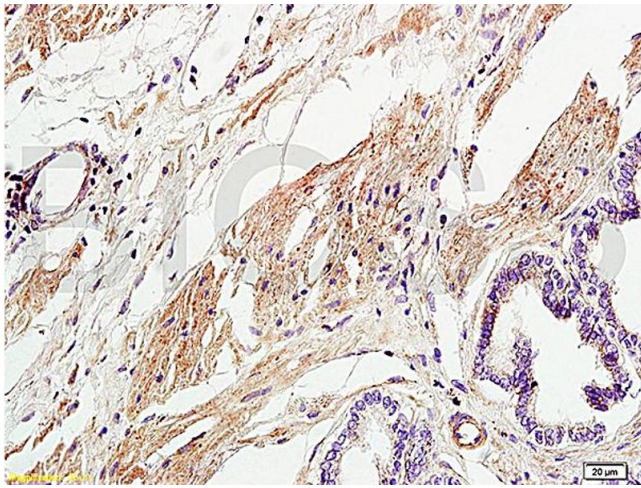
There are more publications referencing this product on: [Product page](#)

Images



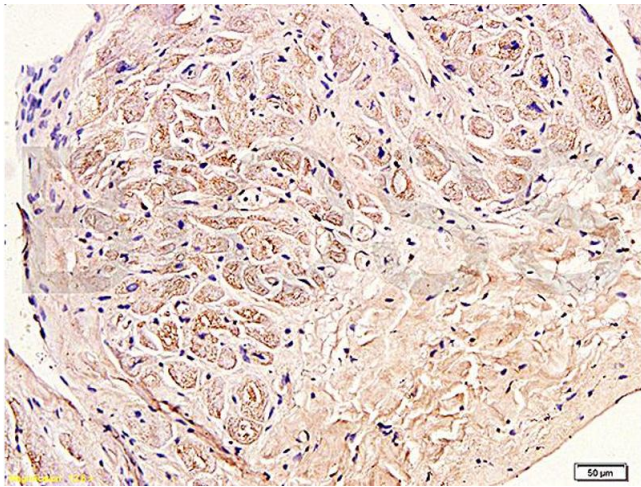
Western Blotting

Image 1. miR155 deletion increases adipose tissue fibrosis under high-fat diet (HFD) conditions in male mice. (A) Representative images of H&E and Picrosirius Red staining in epididymal AT (20x), (B) representative western blots of Collagen I, III, and VI (n = 4-8), (C) average epididymal adipocyte size (n = 6-8), and (D) epididymal adipose tissue gene expression of adiponectin. *Significantly different (P < 0.05). - figure provided by CiteAb. Source: PMID28947593



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded dog bladder tissue labeled with Anti-Collagen III Polyclonal Antibody (ABIN669981), Unconjugated at 1:800, followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry

Image 3. Formalin-fixed and paraffin embedded human myocardium tissue labeled with Anti-Collagen III Polyclonal Antibody (ABIN669981), Unconjugated at 1:400, followed by conjugation to the secondary antibody and DAB staining

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN669981.