

Product datasheet for **R1040B**

Collagen III (COL3A1) Rabbit Polyclonal Antibody

Product data:

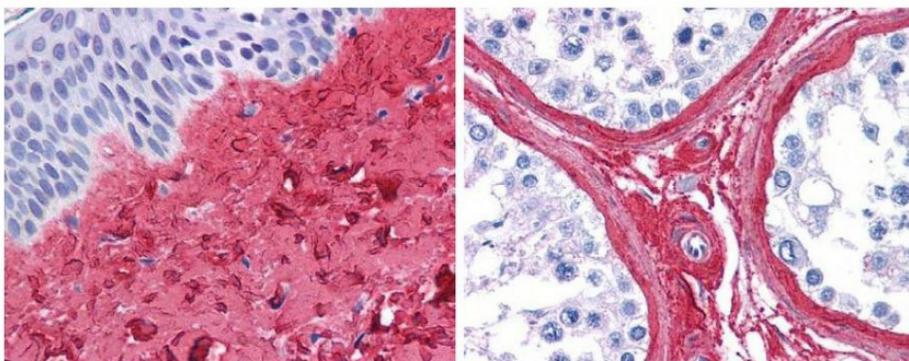
Product Type:	Primary Antibodies
Applications:	ELISA, IHC, IP, WB
Recommended Dilution:	Anti-Collagen antibodies have been used for indirect trapping ELISA for quantitation of antigen in serum using a standard curve, for immunoprecipitation and for western blotting for highly sensitive qualitative analysis. <i>Recommended Dilutions:</i> ELISA: 1/10,000-1/50,000. Western blot: 1/1,000-1/5,000. Immunoprecipitation: 1/100. Immunohistochemistry: 1/200 -1/1,000.
Reactivity:	Bovine, Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Collagen Type III from Human and Bovine placenta.
Specificity:	This product has been prepared by immunoaffinity chromatography using immobilized antigens followed by extensive cross-adsorption against other collagens, human serum proteins and non-collagen extracellular matrix proteins to remove any unwanted specificities. Typically less than 1% cross reactivity against other types of collagens was detected by ELISA against purified standards. 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. This antibody reacts with most mammalian Type III collagens and has negligible cross-reactivity with Type I, II, IV, V and VI collagens. Non-specific cross reaction of anti-collagen antibodies with other human serum proteins or non-collagen extracellular matrix proteins is negligible.



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Formulation:	0.125M Sodium Borate, 0.075M Sodium Chloride, 0.005M EDTA, pH 8.0 Label: Biotin State: Lyophilized (sterile filtered) purified Ig fraction Stabilizer: 10 mg/ml BSA (Ig and Protease free) Preservative: 0.01% (w/v) Sodium Azide Label: Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC)
Reconstitution Method:	Restore with 100 µl deionized water (or equivalent)
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Biotin
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	collagen type III alpha 1 chain
Database Link:	Entrez Gene 1281 Human P02461
Background:	Collagen III is a fibrillar collagen that is found in extensible connective tissues such as skin, lung, and the vascular system, frequently in association with type I Collagen. Mutations in the gene are associated with Ehlers Danlos syndrome type IV, and with aortic and arterial aneurysms. Although alternate transcripts have been detected for this gene, they are the result of mutations; these mutations alter splicing, often leading to the exclusion of multiple exons.
Synonyms:	COL3A1

Product images:



Immunohistochemistry-Paraffin Sections
Collagen III Antibody Biotin conjugated. This antibody 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.