

## Polyclonal Antibody to Collagen type III alpha 1 chain - Biotin

<b>Alternate names:</b>	COL3A1
<b>Catalog No.:</b>	R1040B
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1.0 mg/ml (by UV absorbance at 280 nm)
<b>Background:</b>	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.
<b>Uniprot ID:</b>	<a href="#">P02461</a>
<b>NCBI:</b>	<a href="#">NP_000081.1</a>
<b>GeneID:</b>	<a href="#">1281</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Collagen Type III from Human and Bovine placenta.
<b>Format:</b>	<b>State:</b> Liquid (sterile filtered) purified Ig fraction. <b>Purification:</b> Immunoaffinity Chromatography. <b>Buffer System:</b> 0.125M Sodium Borate, 0.075M Sodium Chloride, 0.005M EDTA, pH 8.0 with 0.01% Sodium Azide as preservative and 10 mg/ml BSA (Immunoglobulin and Protease free) as stabilizer. <b>Label:</b> Biotin – Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC) <i>Molar Ratio:</i> 10-20 BAC molecules per Rabbit IgG molecule
<b>Applications:</b>	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. <b>Recommended Dilutions:</b> ELISA: 1/10,000-1/50,000. Western blot: 1/5,000-1/10,000. Immunoprecipitation: 1/100. Immunohistochemistry: 1/200 -1/1,000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
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**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.

**Species:** Human, Bovine.

Other species not tested.

**Storage:**

Store vial at 2-8°C prior to opening. This product is stable at 2-8°C as an undiluted liquid. For extended storage mix with an equal volume of glycerol, aliquot contents and freeze at -20°C or below. Avoid cycles of freezing and thawing.

Dilute only prior to immediate use.

Shelf life: one year from despatch.

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