

## Anti-Collagen III/COL3A1 Antibody Picoband® Biotin Conjugated

Catalog Number: RP1033-Biotin

### About COL3A1

COL3A1, also called EDS4A or Collagen alpha-1 (III), is a protein that in humans is encoded by the COL3A1 gene, it is mapped to 2q32.2. COL3A1 chain is a fibrillar-forming collagen comprising 3 alpha-1 (III) chains and is expressed in early embryos and throughout embryogenesis. In adult, COL3A1 is a major component of the extracellular matrix in a variety of internal organs and skin. COL3A1 is also a fibrous scleroprotein in bone, cartilage, dentin, tendon, bone marrow stroma and other connective tissue. It is involved in regulation of cortical development, and it is the major ligand of GPR56 in the developing brain. COL3A1 binding to GPR56 can inhibit neuronal migration and activate the RhoA pathway by coupling GPR56 to GNA13 and possibly GNA12

### Overview

Product Name	Anti-Collagen III/COL3A1 Antibody Picoband® Biotin Conjugated
Reactive Species	Human
Application	WB, IHC, ELISA
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P02461

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Collagen III, different from the related mouse sequence by four amino acids, and from the related rat sequence by five amino acids.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Biotin

**Suggested Dilutions**

Western blot, Optimal dilutions should be determined by end users.  
Immunohistochemistry (Paraffin-embedded Section), Optimal dilutions should be determined by end users.  
ELISA, Optimal dilutions should be determined by end users.

## 26 Publications Citing This Product

1. PubMed ID: 33389493, Xu L,Sun N,Li G,Liu L.LncRNA H19 promotes keloid formation through targeting the miR-769-5p/EIF3A pathway.Mol Cell Biochem.2021 Jan 3.doi:10.1007/s11010-020-04024-x.Epub ahead of print.PMID:33389493.
2. PubMed ID: 25850001, Continuing Treatment with Salvia miltiorrhiza Injection Attenuates Myocardial Fibrosis in Chronic Iron-Overloaded Mice
3. PubMed ID: 12508372, Effects of pentoxifylline on the hepatic content of TGF- $\beta$ 1 and collagen in Schistosomiasis japonica mice with liver fibrosis

Visit [bosterbio.com/anti-collagen-iii-antibody-rp1033-boster.html](https://bosterbio.com/anti-collagen-iii-antibody-rp1033-boster.html) to see all 26 publications.

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