

## Anti-Collagen I/COL1A1 Antibody Picoband® FITC Conjugated

Catalog Number: PB9938-FITC

### About COL1A1

Collagen, type I, alpha 1, also known as COL1A1, is a human gene that encodes the major component of type I collagen, the fibrillar collagen found in most connective tissues, including cartilage. This gene is mapped to 17q21.33. And this gene encodes the pro-alpha1 chains of type I collagen whose triple helix comprises two alpha1 chains and one alpha2 chain. Type I is a fibril-forming collagen found in most connective tissues and is abundant in bone, cornea, dermis and tendon. Mutations in this gene are associated with osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIA, Ehlers-Danlos syndrome Classical type, Caffey Disease and idiopathic osteoporosis.

### Overview

Product Name	Anti-Collagen I/COL1A1 Antibody Picoband® FITC Conjugated
Reactive Species	Human
Application	Flow Cytometry
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. Protect from light.
Host	Rabbit
Uniprot ID	P02452

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Collagen I, different from the related mouse and rat sequences by four 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	FITC Excitation Wavelength: 495 nm Emission Wavelength: 525 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

## 50 Publications Citing This Product

1. PubMed ID: 33711827, Jiang Y,Liu JM,Huang JP,Lu KX,Sun WL,Tan JY,Li BX,Chen LL,Wu Y. Regeneration potential of decellularized periodontal ligament cell sheets combined with 15-Deoxy- $\Delta^{12,14}$ -prostaglandin J2nanoparticles in a rat periodontal defect. Biomed Mater.2021 Mar 12.doi:10.1088/1748-605X/abee61.Epub ahead of print.PMID:33711827.

2. PubMed ID: -, Lombardi, F.; Augello, F.R.; Palumbo, P.; Mollisi, E.; Giuliani, M.; Cimini, A.M.; Cifone, M.G.; Cinque, B. Soluble Fraction from Lysate of a High Concentration Multi-Strain Probiotic Formulation Inhibits TGF-beta1-Induced Intestinal Fibrosis on CCD-18Co Cells. Nutrients 2021,13,882. <https://doi.org/10.3390/nu13030882>

3. 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.

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