

Anti-Collagen III/COL3A1 Antibody Picoband®

Catalog Number: RP1033

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.

Submit a product review to Biocompare.com

[Submit a review of this product](#) to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Overview

Product Name	Anti-Collagen III/COL3A1 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Collagen III/COL3A1 Antibody catalog # RP1033. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P02461

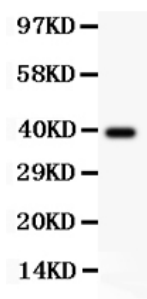
Technical Details

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.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human

Anti-Collagen III/COL3A1 Antibody Picoband® (RP1033) Images



Anti-Collagen III Picoband antibody, RP1033-2.jpg All lanes:
Anti Collagen III(RP1033) at 0.5ug/ml Lane 1: MCF-4 Whole
Cell Lysate at 40ug Lane 2: COLO320 Whole Cell Lysate at
40ug Predicted bind size: 139KD Observed bind size: 139KD



Anti-Collagen III Picoband antibody, RP1033-1.jpg All lanes:
Anti Collagen III (RP1033) at 0.5ug/ml WB: Recombinant
Human Collagen III Protein 0.5ng Predicted bind size:
39KD Observed bind size: 39KD

28 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: 23707206, Zhang Y, Zhang Y, Xie Y, Gao Y, Ma J, Yuan J, Li J, Wang J, Li L, Zhang J, Chu L. J Ethnopharmacol. 2013 Jul 9;148(2):671-81. Doi: 10.1016/J.Jep.2013.05.028. Epub 2013 May 22. Multitargeted Inhibition Of Hepatic Fibrosis In Chronic Iron-Overloaded...
3. PubMed ID: 24940435, Han L, Wang L, Wang Q, Li H, Zang H. Exp Ther Med. 2014 May;7(5):1337-1341. Epub 2014 Feb 20. Association Between Pelvic Organ Prolapse And Stress Urinary Incontinence With Collagen.

Visit bosterbio.com/anti-collagen-iii-antibody-rp1033-boster.html to see all 28 publications.

Anti-Collagen III/COL3A1 Antibody

For Research Use Only. Not for use in diagnostic procedures.