BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Collagen Type I/COL1A2 Antibody Picoband®

Catalog Number: A00624-3

About COL1A2

This gene encodes the pro-alpha2 chain 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 VIIB, recessive Ehlers-Danlos syndrome Classical type, idiopathic osteoporosis, and atypical Marfan syndrome. Symptoms associated with mutations in this gene, however, tend to be less severe than mutations in the gene for the alpha1 chain of type I collagen (COL1A1) reflecting the different role of alpha2 chains in matrix integrity. Three transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene.

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Overview

Product Name	Anti-Collagen Type I/COL1A2 Antibody Picoband®
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Collagen Type I/COL1A2 Antibody Picoband® catalog # A00624-3. Tested in WB, ELISA applications. This antibody reacts with Human, Mouse. 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	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	P08123

Technical Details

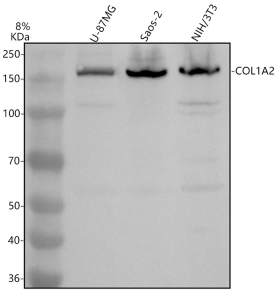
Immunogen	E.coli-derived human COL1A2 recombinant protein (Position: D1120-K1366).

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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, 0.25-0.5 ug/ml, Human, Mouse ELISA, 0.1-0.5 ug/ml

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Anti-Collagen Type I/COL1A2 Antibody Picoband® (A00624-3) Images



Western blot analysis of Collagen Type I/COL1A2 using anti-Collagen Type I/COL1A2 antibody (A00624-3). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human U-87MG whole cell lysates, Lane 2: human Saos-2 whole cell lysates, Lane 3: mouse NIH/3T3 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Collagen Type I/COL1A2 antigen affinity purified polyclonal antibody (A00624-3) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for Collagen Type I/COL1A2 at approximately 160 kDa. The expected band size for Collagen Type I/COL1A2 is at 129 kDa.

Anti-Collagen Type I/COL1A2 Antibody

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