

Anti-COLLAGEN Type I COL1A1 Antibody Biotin Conjugated

Catalog Number: B00329

About COL1A1

COLLAGEN Type I Antibody Biotin Conjugated is specific for Collagen Type I. Collagen Type I (Type-I collagen) is the most abundant collagen of the human body. It is present in scar tissue, the end product when tissue heals by repair. It is also found in tendons, the endomysium of myofibrils and the organic part of bone. [Anti-collagen Type I antibody](#) is suitable for Cancer research and other general research.

Overview

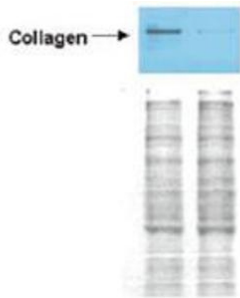
Product Name	Anti-COLLAGEN Type I COL1A1 Antibody Biotin Conjugated
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-COLLAGEN Type I COL1A1 Antibody Biotin Conjugated (Catalog # B00329). Tested in Dot blot, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Conjugate	Biotin
Application	Dot blot, Flow Cytometry
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at 4°C prior to restoration. Restore with 0.1 mL of deionized water (or equivalent). For extended storage aliquot contents and freeze at -20°C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of restoration. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	P02452

Technical Details

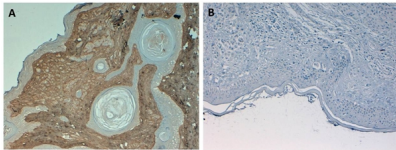
Immunogen	Collagen Type I from human and bovine placenta.
Predicted Reactive Species	Bovine
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Lyophilized

Concentration	1.0 mg/mL by UV absorbance at 280 nm
Purification	This product has been prepared by immunoaffinity chromatography using immobilized antigens. 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 I collagens and has expected cross-reactivity with Type III and negligible cross-reactivity with Type II, IV, V or VI collagens. Non-specific cross-reaction of anti-collagen antibodies with other human serum proteins or non-collagen extracellular matrix proteins has not been tested.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>ELISA: 1:3,000 - 1:6,000</p> <p>Flow Cytometry: User optimized</p> <p>Fluorochrome Protein Value: 10-20</p> <p>IHC: 1:50 - 1:200</p> <p>IP: 1:100</p> <p>WB: 1:3,000 - 1:6,000</p>

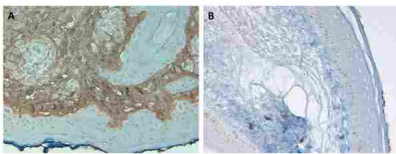
Anti-COLLAGEN Type I COL1A1 Antibody Biotin Conjugated (B00329) Images



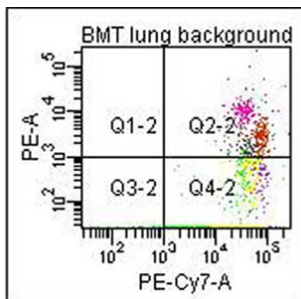
Western blot analysis of Collagen I expression in Wistar rat hepatic stellate cells (HSC) in control (GFP-transduced) (lane 1), PPAR γ -transduced cell lysates (lane 2). Load: 100 ug per lane. Collagen I at 138.9 kDa was detected using biotin conjugated rabbit anti-Collagen Type I Antigen Affinity purified polyclonal antibody (Catalog # B00329) at 0.2 ug/10 ml. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).



Collagen Type I was detected in paraffin-embedded sections of human skin at pH6 using biotin conjugated rabbit anti-Collagen Type I Antigen Affinity purified polyclonal antibody (Catalog # B00329) at 10 ug/ml. The immunohistochemical sections were developed using SABC method (Catalog # SA1022). Localization: Collagen Type I is secreted in the extracellular matrix. Staining: Collagen Type I as precipitated brown signal (A) with hematoxylin purple nuclear counterstain. With corresponding negative control (B).

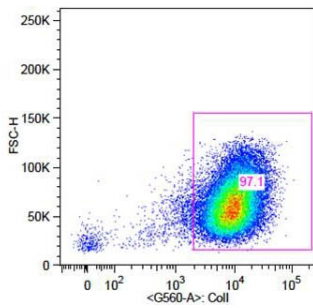


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Flow cytometry analysis of unstimulated mouse lung cells using biotin conjugated rabbit anti-Collagen Type I Antigen Affinity purified polyclonal antibody (Catalog # B00329). Secondary antibody: PE-conjugated CD45 and PE-conjugated anti-collagen type I secondary antibody.

Flow cytometry analysis of unstimulated primary adult human dermal fibroblast cells using biotin conjugated rabbit anti-Collagen Type I Antigen Affinity purified polyclonal antibody (Catalog # B00329) at 5



33 Publications Citing This Product

1. PubMed ID: 10.3136/fstr.15.249, Protective Effect of Cartilage-selenium Polysaccharide on Diethylnitrosamine-Induced Liver Injury in Mice and Its Possible Mechanisms
2. PubMed ID: -, Pei-pei Fang,Chen-wei Pan,Wei Lin,Jie Li,Shan-shan Huang,Guang-yao Zhou,Wen-jun Du,Qiang Li, "ASK1 Enhances Angiotensin II-Induced Liver Fibrosis In Vitro by Mediating Endoplasmic Reticulum Stress-Dependent Exosomes",Mediators of Inflammation,vol.2020,Art
3. PubMed ID: -, Zhao, Q., Shi, M., Yin, C. et al. Dual-Wavelength Photosensitive Nano-in-Micro Scaffold Regulates Innate and Adaptive Immune Responses for Osteogenesis. Nano-Micro Lett. 13, 28 (2021). <https://doi.org/10.1007/s40820-020-00540-z>

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