

Datasheet for ABIN5596821

anti-Collagen Type I antibody (Biotin)

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Overview

Quantity:	100 µg
Target:	Collagen Type I (COL1)
Reactivity:	Human, Rat, Mouse, Cow, Mammalian
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Collagen Type I antibody is conjugated to Biotin
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Flow Cytometry (FACS)

Product Details

Immunogen:	Immunogen: Collagen Type I from human and bovine placenta. Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	Typically negligible cross reactivity against other types of collagens was detected by ELISA against purified standards. 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 negligible cross-reactivity with Type II, III, IV, V and VI collagens. Non-specific cross-reaction of anti-collagen antibodies with other human serum proteins or non-collagen extracellular matrix proteins is negligible.
Purification:	This product has been prepared by immunoaffinity chromatography using immobilized antigens followed by extensive cross-adsorption against other collagens, human serum

Product Details

proteins and non-collagen extracellular matrix proteins to remove any unwanted specificities.

Labeling Ratio: 10-20

Target Details

Target: Collagen Type I (COL1)

Alternative Name: COLLAGEN Type I ([COL1 Products](#))

Background: Synonyms: Collagen Of Skin Tendon And Bone antibody, Collagen Type 1 antibody, Collagen type I alpha 1 antibody, Collagen type I alpha 2 antibody, OI4 antibody, Osteogenesis Imperfecta Type IV antibody

Background: 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.

Gene Name: COL1A1

Gene ID: 1277

UniProt: [P02452](#)

Application Details

Application Notes: Flow Cytometry Dilution: User Optimized
Immunohistochemistry Dilution: 1:50 - 1:200
Application Note: Anti-COLLAGEN Type I Antibody Biotin Conjugated is suitable for western blot, immunoprecipitation, Flow Cytometry, and immunohistochemistry. Researchers should determine optimal titers for applications that are not stated below.
Western Blot Dilution: 1:3,000 - 1:6,000
Immunoprecipitation Dilution: 1:100
ELISA Dilution: 1:3,000 - 1:6,000

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitution Volume: 100 µL

Handling

Reconstitution Buffer: Restore with deionized water (or equivalent)

Concentration: 1.0 mg/mL

Buffer: 0.125 M Sodium Borate, 0.075 M Sodium Chloride, 0.005 M EDTA, pH 8.0
Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

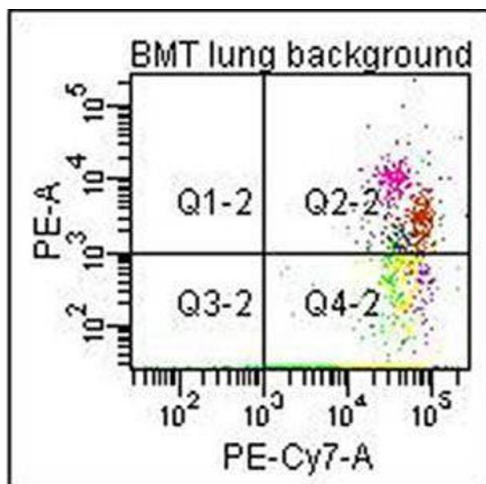
Storage Comment: Store vial at 4° C prior to restoration. Restore with 0.1 mL of deionized water (or equivalent). For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This 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.

Expiry Date: 12 months

Publications

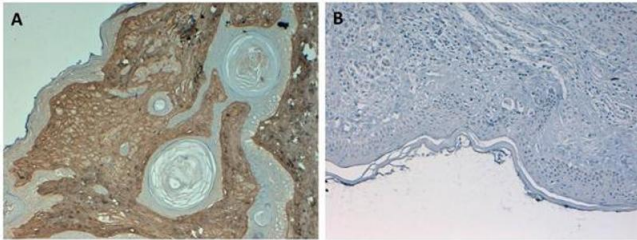
Product cited in: Ida, Hikage, Itoh, Ida, Ohguro: "Prostaglandin F2α agonist-induced suppression of 3T3-L1 cell adipogenesis affects spatial formation of extra-cellular matrix." in: **Scientific reports**, Vol. 10, Issue 1, pp. 7958, (2020) ([PubMed](#)).

Validation report #104083 for Unfolding Profile (UP)



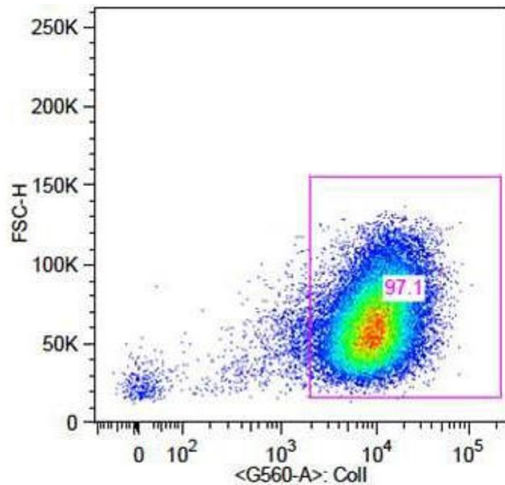
Flow Cytometry

Image 1. Flow Cytometry of Anti-Collagen Type I Biotin Conjugated Antibody. Cells: mouse lung. Stimulation: none. Primary antibody: biotin conjugated anti-collagen type I antibody. Secondary antibody: PE-conjugated CD45 and PE-conjugated anti-collagen type I secondary antibody.



Immunohistochemistry

Image 2. Immunohistochemistry of Rabbit Anti-Collagen Type I Antibody. Tissue: Human Skin at pH6. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Collagen Type I antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. 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).



Flow Cytometry

Image 3. Flow Cytometry of Rabbit Anti-Collagen 1 Antibody. Cells: primary adult human dermal fibroblast cells. Stimulation: none. Primary antibody: Biotin-Conjugated Collagen 1 antibody at 5µg/mL for 45 min at 4°C. Secondary antibody: Rabbit Streptavidin, R-PE antibody at 1:500 for 15 min at RT.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN5596821.