

Datasheet for ABIN5596841

anti-Collagen Type V antibody (Biotin)



[Go to Product page](#)

1 Image

1 Publication

Overview

Quantity:	100 µg
Target:	Collagen Type V (COL5)
Reactivity:	Human, Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Collagen Type V antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunoprecipitation (IP)

Product Details

Purpose:	Collagen Type V Antibody Biotin Conjugated
Immunogen:	Immunogen: Collagen Type V from human and bovine placenta Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	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.
Characteristics:	Synonyms: rabbit anti-Collagen Type V antibody biotin conjugation, biotin conjugated rabbit anti-Collagen Type V antibody, COL5A1 protein antibody, Collagen fetal membrane A polypeptide antibody, Collagen alpha-1 (V) chain
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.

Sterility: Sterile filtered

Target Details

Target: Collagen Type V (COL5)

Alternative Name: Collagen Type V ([COL5 Products](#))

Background: Background: In muscle tissue, collagen serves as a major component of the endomysium. Collagen constitutes one to two percent of muscle tissue, and accounts for 6 % of the weight of strong, tendinous muscles. A collagen may be defined as a protein containing sizable domain(s) of triple-helical conformation. Type IV collagen is a major macromolecular constituent of basement membranes and can be readily isolated from basement-membrane-rich tissues or highly vascularized tissues such as the placental villi. This collagen appears to be largely restricted to structures identifiable as basement membranes. In contrast, type VI collagen appears to be prevalent in several tissues even though it has been isolated largely from placental villi preparations. The extent to which type VII and VIII collagens are distributed is not known.

Gene ID: 50509

NCBI Accession: [NP_056534](#)

UniProt: [P25940](#)

Application Details

Application Notes: Immunohistochemistry Dilution: 1:50 to 1:200

Application Note: This product was assayed by immunoblot and found to be reactive against Collagen V at a dilution of 1:5,000 to 1:10,000. This product was also assayed against 1.0 µg of Collagen V in a standard sandwich ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:4,000 to 1:8,000 of the stock concentration is suggested for this product. For immunohistochemistry on frozen tissue sections dilute the product 1:50 to 1:200.

Western Blot Dilution: 1:5,000 to 1:10,000

Immunoprecipitation Dilution: 1:100

ELISA Dilution: 1:4,000 - 1:8,000

Other: User Optimized

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.1 mg/mL

Buffer: Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative: 0.01 % (w/v) Sodium Azide

Preservative: Sodium azide

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

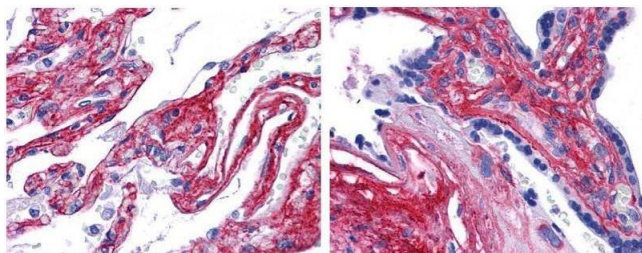
Storage: 4 °C, -20 °C

Storage Comment: Store vial at 4° C prior to opening. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage, mix with an equal volume of glycerol, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.

Expiry Date: 12 months

Publications

Product cited in: Zhang, Maric, DiPrima, Khan, Orentas, Kaplan, Mackall: "Fibrocytes represent a novel MDSC subset circulating in patients with metastatic cancer." in: **Blood**, Vol. 122, Issue 7, pp. 1105-13, (2013) ([PubMed](#)).



Immunohistochemistry

Image 1. anti collagen V antibody (600-401-107 Lot 22063, 1:200, 45 min RT) showed strong staining in FFPE sections of human lung (left) with strong staining within alveoli, vessels, and in connective tissue spaces; and placenta (right) with strong staining observed in stromal and connective tissue spaces and vessel walls. Slides were steamed in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes for antigen retrieval. Images provided courtesy of LifeSpan Biosciences, Seattle, WA