

Datasheet for ABIN5596840  
**anti-Collagen Type V antibody**



[Go to Product page](#)

1 Image

## Overview

Quantity:	500 µg
Target:	Collagen Type V (COL5)
Reactivity:	Human, Cow
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunoprecipitation (IP), Dot Blot (DB)

## Product Details

Purpose:	Collagen Type V Antibody
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, 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 proteins and non-collagen extracellular matrix proteins to remove any unwanted specificities.

## Product Details

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Sterility: Sterile filtered

## Target Details

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Target: Collagen Type V (COL5)

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

Background: Background: Collagens are highly conserved throughout evolution and are characterized by an uninterrupted "Glycine-X-Y" triplet repeat that is a necessary part of the triple helical structure. For these reasons, it is often extremely difficult to generate antibodies with specificities to collagens. The development of 'type' specific antibodies is dependent on NON-DENATURED three-dimensional epitopes. Rockland extensively purifies collagens for immunization from human and bovine placenta and cartilage by limited pepsin digestion and selective salt precipitation. This preparation results in a native conformation of the protein. Antibodies are isolated from rabbit antiserum and are extensively cross-adsorbed by immunoaffinity purification to produce 'type' specific antibodies. Greatly diminished reactivity and selectivity of these antibodies will result if denaturing and reducing conditions are used for SDS-PAGE and immunoblotting.

Gene ID: 50509

NCBI Accession: [NP\\_056534](#)

UniProt: [P05997](#)

## Application Details

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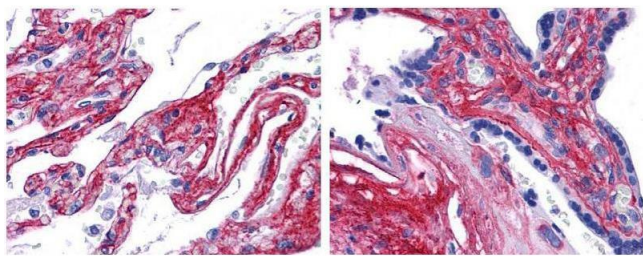
Application Notes: Immunohistochemistry Dilution: 1:50 - 1:200  
Application Note: Anti-Collagen Type V has been tested by dot blot and IHC and is suitable by indirect trapping ELISA for quantitation of antigen in serum using a standard curve, immunoprecipitation, immunohistochemistry, native (non-denaturing, non-dissociating) PAGE, and western blotting for highly sensitive qualitative analysis.  
Western Blot Dilution: 1:1,000 - 1:10,000  
Immunoprecipitation Dilution: 1:100  
ELISA Dilution: 1:5,000 - 1:50,000  
Other: User Optimized

Restrictions: For Research Use only

## Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None 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

## Images



### 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