

Datasheet for ABIN5596826  
**anti-COL2 antibody (Biotin)**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	100 µg
Target:	COL2
Reactivity:	Human, Cow, Mammalian
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COL2 antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunoprecipitation (IP)

## Product Details

Immunogen:	Immunogen: Anti-Collagen Type II antibody was produced by repeated immunizations with Collagen Type II from adult human knee cartilage and bovine nasal cartilage. 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 II collagens and has negligible cross-reactivity with Type I, 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:	Anti-Collagen Type II 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.

## Target Details

Target:	COL2
Alternative Name:	Collagen Type II ( <a href="#">COL2 Products</a> )
Background:	<p>Synonyms: Cartilage collagen antibody, Chondrocalcin antibody, COL11A3 antibody, COL2A1 antibody</p> <p>Background: Anti-Collagen Type II antibody detects Type-II collagen which is the basis for articular cartilage and hyaline cartilage. It makes up 50 % of all protein in cartilage and 85-90 % of collagen of articular cartilage. Type II collagen does form fibrils which allow cartilage to entrap the proteoglycan aggregate as well as provide tensile strength to the tissue. Anti-Collagen Type II antibody is ideal for investigators involved in Immunology, Neuroscience and Signal Transduction research.</p> <p>Gene Name: COL2A1</p>
Gene ID:	1280
UniProt:	<a href="#">P02458</a>

## Application Details

Application Notes:	<p>Immunohistochemistry Dilution: 1:200 - 1:1,000</p> <p>Application Note: Anti-Collagen Type II antibody is suitable for western blotting, IP, IHC and for ELISA. Researchers should determine optimal titers for applications that are not stated below.</p> <p>Western Blot Dilution: 1:5,000 - 1:10,000</p> <p>Immunoprecipitation Dilution: 1:100</p> <p>ELISA Dilution: 1:10,000 - 1:50,000</p>
Restrictions:	For Research Use only

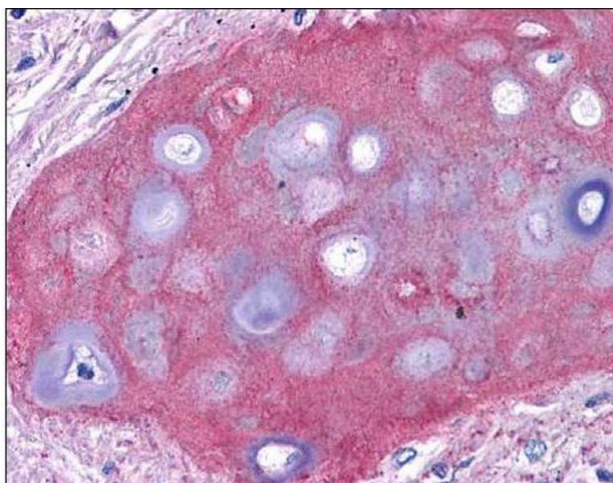
## Handling

Format:	Lyophilized
Reconstitution:	<p>Reconstitution Volume: 100 µL</p> <p>Reconstitution Buffer: Restore with deionized water (or equivalent)</p>
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.125 M Sodium Borate, 0.075 M Sodium Chloride, 0.005 M EDTA, pH 8.0

## Handling

	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

## Validation report #300049 for Immunohistochemistry (IHC)



### Immunohistochemistry

**Image 1.** Immunohistochemistry of Rabbit Anti-Collagen II Biotin Conjugated Antibody. Tissue: human bronchiolar cartilage (shown). Though not shown, faint to moderate staining of tonsillar squamous epithelium, prostatic stroma, breast, colon, placenta, and dermal connective tissues was also observed. All other tissues, including brain, breast epithelium, colon epithelium, heart, intestine, kidney, liver, lung, skeletal muscle, pancreas, spleen, testis, thymus, thyroid, and uterus were negative for staining. Fixation: formalin fixed paraffin embedded. Antigen retrieval: 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes. Primary antibody: collagen II 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 II is extracellular. Staining: Collagen II as precipitated red signal with hematoxylin purple nuclear counterstain.