

## Anti-Collagen Type II (RABBIT) Antibody Biotin Conjugated - 600-406-104

**Code:** 600-406-104

**Size:** 100 µg

**Product Description:** Anti-Collagen Type II (RABBIT) Antibody Biotin Conjugated - 600-406-104

**Concentration:** 1.0 mg/mL by UV absorbance at 280 nm

**PhysicalState:** Lyophilized

<b>Label</b>	Biotin
<b>Host</b>	Rabbit
<b>Gene Name</b>	COL2A1
<b>Species Reactivity</b>	human, bovine
<b>Buffer</b>	0.125 M Sodium Borate, 0.075 M Sodium Chloride, 0.005 M EDTA, pH 8.0
<b>Reconstitution Volume</b>	100 µL
<b>Reconstitution Buffer</b>	Restore with deionized water (or equivalent)
<b>Stabilizer</b>	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
<b>Preservative</b>	0.01% (w/v) Sodium Azide
<b>Storage Condition</b>	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.
<b>Synonyms</b>	rabbit anti-Collagen Type II antibody biotin conjugation, biotin conjugated rabbit anti-Collagen Type II antibody, Collagen alpha-1 (II) chain, Alpha-1 type II collagen, Cartilage collagen antibody, Chondrocalcin antibody, COL2A1 antibody
<b>Application Note</b>	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.
<b>Background</b>	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.
<b>Purity And Specificity</b>	Anti-Collagen Type II 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. 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.
<b>Assay Dilutions</b>	User Optimized
<b>ELISA</b>	1:10,000 - 1:50,000
<b>Western Blot</b>	1:5,000 - 1:10,000
<b>Immunohistochemistry</b>	1:200 - 1:1,000
<b>Other Assays</b>	User Optimized
<b>Expiration</b>	Expiration date is one (1) year from date of opening.
<b>Immunogen</b>	Anti-Collagen Type II antibody was produced by repeated immunizations with Collagen Type II from adult human knee cartilage and bovine nasal cartilage.
<b>Related Products</b>	

009-001-104	Human COLLAGEN Type II (ADULT KNEE CARTILAGE) - 009-001-104
600-401-104-0.1	Anti-Collagen Type II (RABBIT) Antibody - 600-401-104-0.1
600-401-104-0.5	Anti-Collagen Type II (RABBIT) Antibody - 600-401-104-0.5

#### Related Links

NCBI - P02458.3

<http://www.ncbi.nlm.nih.gov/protein/P02458.3>

UniProtKB - P02458

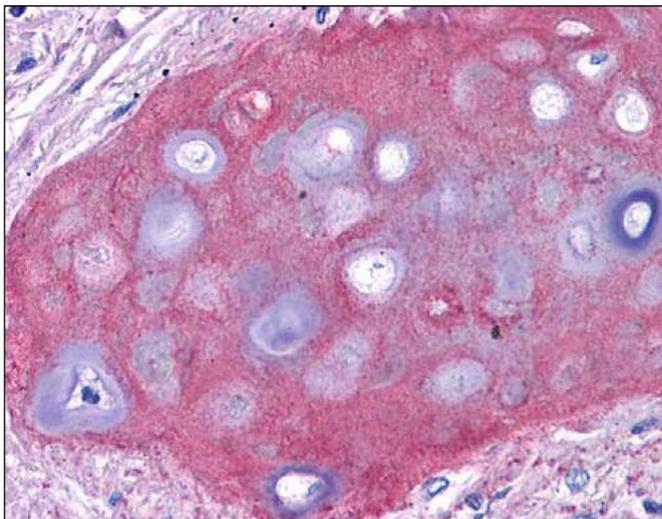
<http://www.uniprot.org/uniprot/P02458>

GenElD - 1280

#### Images

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.



#### Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.