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

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

Related Products

001-001-104 Bovine COLLAGEN Type II (NASAL CARTILAGE) - 001-001-104

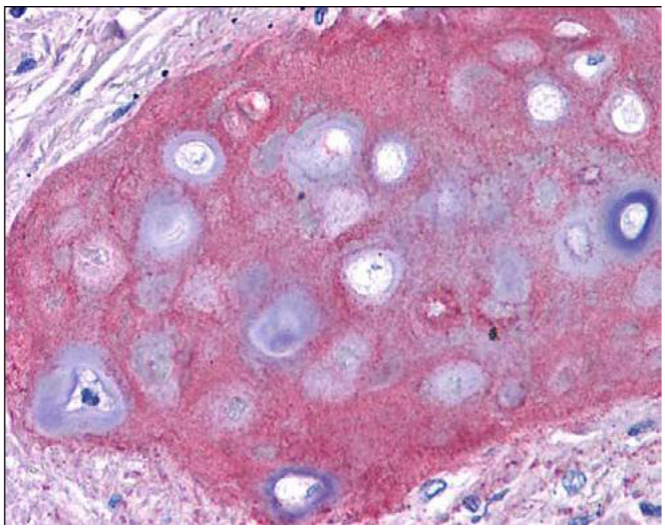
009-001-104	Human COLLAGEN Type II (ADULT KNEE CARTILAGE) - 009-001-104
600-401-104-0.1	Anti-Collagen Type II (RABBIT) Antibody - 600-401-104-0.1
600-401-104-0.5	Anti-Collagen Type II (RABBIT) Antibody - 600-401-104-0.5

Related Links

	NCBI - P02458.3
http://www.ncbi.nlm.nih.gov/protein/P02458.3	
UniProtKB - P02458	http://www.uniprot.org/uniprot/P02458
	GeneID - 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