

# Product Datasheet

## Collagen II Antibody [FITC]

### NBP2-46876

Unit Size: 0.05 mg

Store lyophilized antibody at 4C in the dark. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.

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**NBP2-46876**

Collagen II Antibody [FITC]

Product Information	
Unit Size	0.05 mg
Concentration	LYOPH mg/ml
Storage	Store lyophilized antibody at 4C in the dark. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Reconstitution Instructions	Reconstitute with 50 ul deionized water (or equivalent)
Isotype	IgG
Conjugate	FITC
Purity	Immunogen affinity purified
Buffer	Lyophilized from 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2, 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

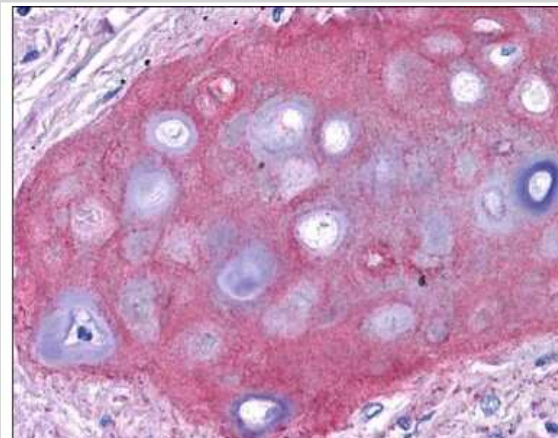
Product Description	
Description	<p>Store vial at 4C prior to restoration. For extended storage aliquot contents and freeze at -20C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p> <p>This antibody 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</p>
Host	Rabbit
Gene ID	1280
Gene Symbol	COL2A1
Species	Human, Mouse, Rat, Bovine, Sheep
Reactivity Notes	<p>This antibody reacts with most mammalian Collagen II and has expected cross-reactivity with Type IV and VI and negligible cross reactivity to Type I, III and V collagens.   Canine reactivity reported in scientific literature (PMID: 22972852).  Avian reactivity reported in scientific literature (PMID: 24739280).  Bovine reactivity reported in scientific literature (PMID: 23688110).  Silk worm reactivity reported in scientific literature (PMID: 23845228).</p>
Specificity/Sensitivity	<p>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 Collagen II and has expected cross-reactivity with Type IV and VI and negligible cross reactivity to Type I, III and V collagens. Non-specific cross reaction of anti-collagen antibodies with other human serum proteins or non-collagen extracellular matrix proteins has not been tested.</p>
Immunogen	Collagen II from human knee cartilage and bovine nasal cartilage. (Uniprot: P02458)

**Product Application Details**

<b>Applications</b>	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:5000-1:10000, Flow Cytometry 1:10 - 1:1000, ELISA 1:10000 - 1:50000, Immunohistochemistry 1:200 - 1:1000, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunoprecipitation 1:100
<b>Application Notes</b>	This product is suitable for western blotting, IP, IHC and for ELISA. Researchers should determine optimal titers for applications that are not stated below.

## Images

**Immunohistochemistry: Collagen II Antibody [Fluorescein] [NBP2-46876]**  
 - Analysis of 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 99-100C - 20 minutes. Primary antibody: collagen II antibody at 10 ug/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.





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-46876**

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NBP2-24892	Rabbit IgG Isotype Control [FITC]
NBP1-97243	Collagen II Native Protein
210-TA-005	TNF-alpha [Unconjugated]
DY7589-05	Collagen II [Biotin]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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