Product Datasheet

Collagen II Antibody [Biotin]
NBP2-21663

Unit Size: 0.1 mg

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

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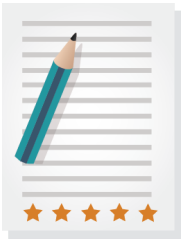


NBP2-21663

Collagen II Antibody [Biotin]

Product Information

Unit Size	0.1 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 100 ul deionized water (or equivalent)
Isotype	IgG
Conjugate	Biotin
Purity	Immunogen affinity purified
Buffer	Lyophilized from 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Product Description

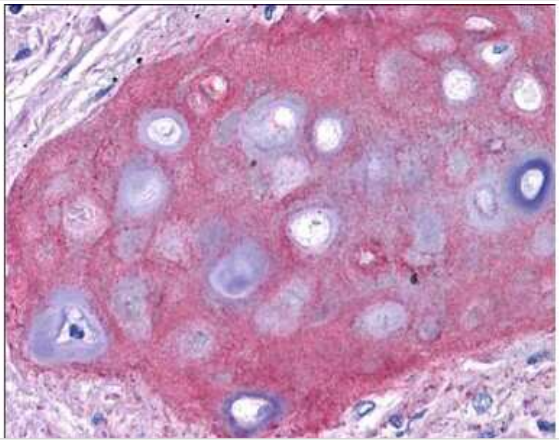
Description	Store vial at 4C prior to restoration. For extended storage aliquot contents and freeze at -20C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use. 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
Host	Rabbit
Gene ID	1280
Gene Symbol	COL2A1
Species	Human, Mouse, Rat, Bovine, Sheep
Reactivity Notes	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).
Specificity/Sensitivity	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.
Immunogen	Collagen II from human knee cartilage and bovine nasal cartilage. (Uniprot: P02458)

Product Application Details

Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:5000-1:10000, ELISA 1:10000-1:50000, Immunohistochemistry 1:200-1:1000, Immunoprecipitation 1:100, Immunohistochemistry-Paraffin 1:200-1:1000
Application Notes	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 [Biotin] [NBP2-21663] - 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.



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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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