

Product Datasheet

Collagen III alpha 1/COL3A1 Antibody [Biotin] NB120-6580

Unit Size: 0.1 mg

Store lyophilized antibody at -20C prior to opening. Aliquot reconstituted liquid and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing.

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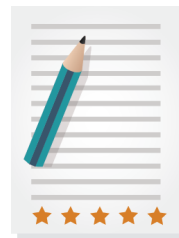
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NB120-6580

Collagen III alpha 1/COL3A1 Antibody [Biotin]

Product Information	
Unit Size	0.1 mg
Concentration	LYOPH mg/ml
Storage	Store lyophilized antibody at -20C prior to opening. Aliquot reconstituted liquid and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing.
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

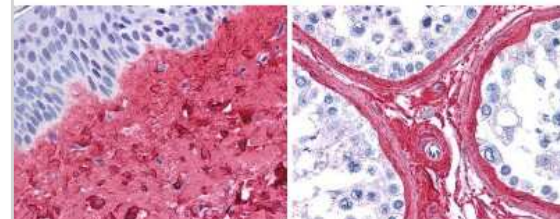
Product Description	
Description	<p>Store vial at -20C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p> <p>This product 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	1281
Gene Symbol	COL3A1
Species	Human, Mouse, Rat, Bovine, Feline, Sheep
Reactivity Notes	<p>This antibody reacts with most mammalian Collagen III alpha 1/COL3A1 and has expected cross-reactivity with Type I and negligible cross reactivity with Type II, IV, V or VI collagens. Use in Sheep reported in scientific literature (PMID:34451177) Mouse reactivity reported in multiple pieces of scientific literature. Rat reactivity reported in scientific literature (PMID: 23370982) Feline reactivity reported in scientific literature (PMID: 33091431)</p>
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 III alpha 1/COL3A1 and has expected cross-reactivity with Type I and negligible cross reactivity with Type II, IV, V or VI 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 III alpha 1/COL3A1 from human and bovine placenta (Uniprot: P02461)

Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation

Recommended Dilutions	Western Blot 1:1000 - 1:5000, Simple Western, ELISA 1:10000 - 1:50000, Immunohistochemistry 1:200 - 1:1000, Immunoprecipitation 1:100, Immunohistochemistry-Paraffin 1:200 - 1:1000
Application Notes	Collagen antibodies have been used for indirect trapping ELISA for quantitation of antigen in serum using a standard curve, immunoprecipitation, native (non-denaturing, non-dissociating) PAGE, immunohistochemistry, and western blotting for highly sensitive qualitative analysis.

Images

Immunohistochemistry: Collagen III alpha 1/COL3A1 Antibody [Biotin] [NB120-6580] - Strong staining in FFPE sections of human skin(left, dermis) with moderate to strong red staining and testis (right) where strong staining was observed within connective tissue between seminiferous tubules. The antibody showed strong extracellular staining within connective tissues across many organs with minimal background staining. Slides were steamed in 0.01 M sodium citrate buffer, pH 6.0 at 99-100C. 20 minutes for antigen retrieval.



Publications

Sales VL, Engelmayr GC Jr, Johnson JA Jr et al. Protein precoating of elastomeric tissue-engineering scaffolds increased cellularity, enhanced extracellular matrix protein production, and differentially regulated the phenotypes of circulating endothelial progenitor cells *Circulation* [PMID: 17846326]

Details:

Used the Biotin form of this antibody.



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Products Related to NB120-6580

NBP2-29370	Streptavidin Native Protein
NBP2-24891B	Rabbit IgG Isotype Control [Biotin]
NBP1-97267	Collagen III alpha 1/COL3A1 Native Protein
7754-BH-005/CF	TGF-beta 1 [Unconjugated]

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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