

# Product Datasheet

## Collagen IV Antibody [Biotin] NB120-6581

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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**NB120-6581**

Collagen IV 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	<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	1282
Gene Symbol	COL4A1
Species	Human, Mouse, Rat, Bovine, Feline
Reactivity Notes	<p>This antibody reacts with most mammalian Collagen IV and has negligible cross-reactivity with Type I, II, III, V or VI collagens. Non-specific cross-reaction of anti-collagen antibodies with other human serum proteins or non-collagen extracellular matrix proteins is negligible.</p> <p>Rat reactivity reported in scientific literature (PMID: 16774905)</p> <p>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 IV and has negligible cross-reactivity with Type I, II, III, V or VI collagens. Non-specific cross-reaction of anti-collagen antibodies with other human serum proteins or non-collagen extracellular matrix proteins is negligible.
Immunogen	Collagen IV from human and bovine placenta (Uniprot: P02462)

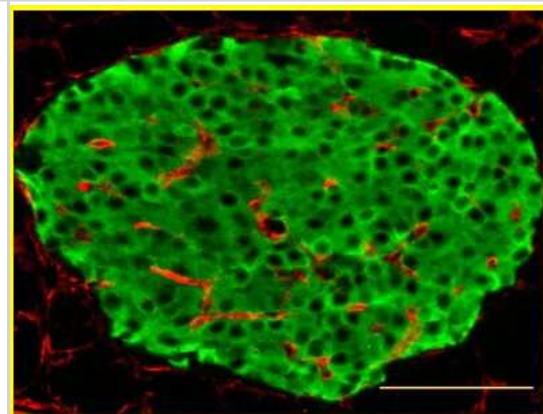
Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Knockout Validated



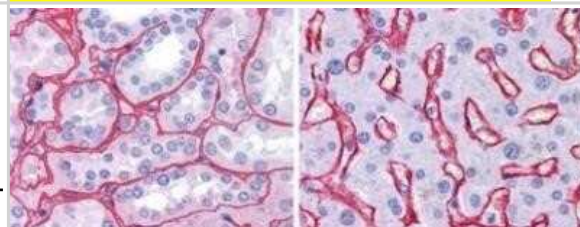
<b>Recommended Dilutions</b>	Western Blot 1:2000-1:10000, ELISA 1:20000-1:100000, Immunohistochemistry 1:1000-1:5000, Immunoprecipitation 1:100, Immunohistochemistry-Paraffin 1:1000 - 1:5000, Knockout Validated
<b>Application Notes</b>	This product is suitable for western blotting, IHC and for ELISA. Researchers should determine optimal titers for applications that are not stated below.

## Images

Immunohistochemistry-Paraffin: Collagen IV Antibody [Biotin] [NB120-6581] - Immunohistochemical staining of Collagen IV alpha 1 (red) and Insulin (green) in mouse pancreas. Image from verified customer review.



Immunohistochemistry-Paraffin: Collagen IV Antibody [Biotin] [NB120-6581] - Collagen IV antibody 1:400, 45 min RT showed strong staining in FFPE sections of human kidney (Left) with strong red staining observed in glomeruli and liver (Right) with strong staining in sinusoids. Staining for both tissues was consistent with a basement membrane distribution. Slides were steamed in 0.01 M sodium citrate buffer, pH 6.0 at 99-100C - 20 minutes for antigen retrieval.



## Publications

Nikolaou S, Hadjikypry X, Ioannou G et al. Functional and phenotypic distinction of the first two trophoblast subdivisions and identification of the border between them during early postimplantation: A prerequisite for understanding early patterning during placentogenesis. *Biochem Biophys Res Commun* 2018-01-29 [PMID: 29305264] (IHC-P)



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### **Products Related to NB120-6581**

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NBP2-29370	Streptavidin Native Protein
NBP2-24891B	Rabbit IgG Isotype Control [Biotin]
NBP1-97245	Collagen IV Native Protein
7754-BH-005/CF	TGF-beta 1 [Unconjugated]

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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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