

# Product Datasheet

## Collagen IV Antibody (1043) - BSA Free NBP1-97716

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

### Publications: 3

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP1-97716](http://www.novusbio.com/NBP1-97716)

Updated 11/1/2024 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP1-97716](http://www.novusbio.com/reviews/destination/NBP1-97716)



**NBP1-97716**

Collagen IV Antibody (1043) - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	1043
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	PBS, pH 7.2
<b>Product Description</b>	
<b>Description</b>	The antibody is shipped at ambient temperature and may be stored at 4C. For prolonged storage prepare appropriate aliquots and store at or below -20C. Prior to use, an aliquot is thawed slowly in the dark at ambient temperature, spun down again and used to prepare working dilutions by adding sterile phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. Working dilutions should be stored at 4C, not refrozen, and preferably used the same day. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance or the concentration of the product.
<b>Host</b>	Mouse
<b>Gene ID</b>	1282
<b>Gene Symbol</b>	COL4A1
<b>Species</b>	Human
<b>Reactivity Notes</b>	Does not react with other species.
<b>Specificity/Sensitivity</b>	This antibody recognizes Collagen IV in the extracellular - basement membranes of normal and pathological human tissues.
<b>Immunogen</b>	Derived by fusion of Sp 2/0 mouse myeloma cells with spleen cells from a BABL/c mouse immunized with purified human type IV collagen. The immunogen has been isolated from human placenta.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot 1:100-1:1000, Flow Cytometry 1:10-1:1000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:50-1:100, Immunohistochemistry-Frozen 1:50-1:100, CyTOF-ready

**Application Notes**

This antibody is suitable for immunoblotting, immunocytochemistry on fixed cells (methanol fixation) and immunohistochemistry on frozen tissues when using a PBS buffer containing 0.1 mM CaCl<sub>2</sub> and 0.1 mM MgCl<sub>2</sub>. For immunohistochemistry on paraffin sections the sections should be pretreated with 1 mg/ml pepsin in 0.01 N HCl for 30 minutes at room temperature. Optimal antibody dilution should be determined by titration; 1:50 - 1:100 for immunohistochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent, and 1:100 - 1:1000 for immunoblotting applications.

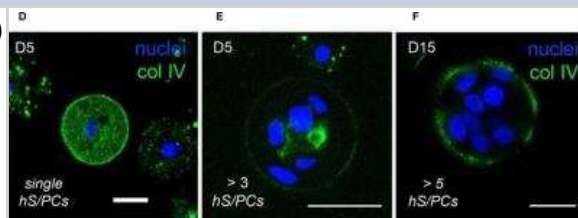
This antibody is CyTOF ready.



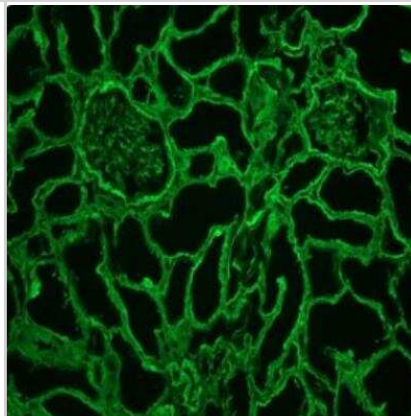
## Images

Immunocytochemistry/Immunofluorescence: Collagen IV Antibody (1043) [NBP1-97716] - hS/PCs sequentially secrete basement membrane proteins during microstructure reorganization and function. Encapsulated hS/PCs in HA-PEGDA hydrogels initially produce collagen IV (green) (D-F) even at the single-cell state. Scale bar = 20  $\mu$ m in all confocal micrographs. Image collected and cropped by CiteAb from the following publication

(<https://www.frontiersin.org/article/10.3389/fcell.2019.00224/full>) licensed under a CC-BY license.



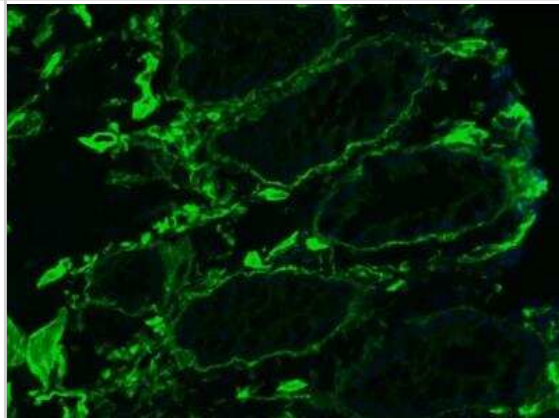
Immunohistochemistry-Frozen: Collagen IV Antibody (1043) [NBP1-97716] - Collagen type IV staining of basement membranes and connective tissue in a frozen section of human kidney.



Immunohistochemistry-Paraffin: Collagen IV Antibody (1043) [NBP1-97716] - Human colon.



Immunohistochemistry-Frozen: Collagen IV Antibody (1043) [NBP1-97716] - Frozen section of Human colon



## Publications

Liu S, Li B, Liu N et al. Multi-omics analysis of human tendon adhesion reveals ACKR1 migrates macrophages involve in endogenous regeneration Research Square 2023-10-30 (IHC, Human)

Irizarry BA Morphology, Propagation, and Toxicity of Human-Derived Amyloid- $\beta$  Fibrils Thesis 2023-01-01 (IHC, Human)

Wu D, Witt RL, Harrington DA, Farach-Carson MC Dynamic Assembly of Human Salivary Stem/Progenitor Microstructures Requires Coordinated  $\alpha$ 1  $\beta$ 1 Integrin-Mediated Motility Front Cell Dev Biol 2019-10-16 [PMID: 31750298] (ICC/IF, Human)





### **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 NBP1-97716**

---

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP1-97716PE	Collagen IV Antibody (1043) [PE]

---

### **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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP1-97716](http://www.novusbio.com/reviews/submit/NBP1-97716)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

