

Product Datasheet

Collagen III alpha 1/COL3A1 Native Protein NBP1-97267

Unit Size: 0.5 mg

Store at 4C. Do not freeze.

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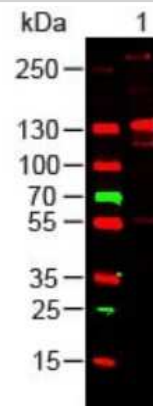


NBP1-97267**Collagen III alpha 1/COL3A1 Native Protein**

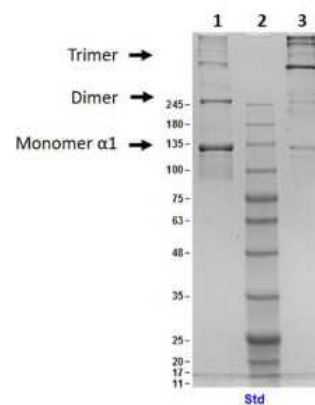
Product Information	
Unit Size	0.5 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C. Do not freeze.
Preservative	0.01% Sodium Azide
Purity	Chromatography
Buffer	0.5 M Acetic Acid
Product Description	
Description	<p>Native Human Collagen III alpha 1/COL3A1</p> <p>Source: Human placenta (Accession #:P02461)</p> <p>Store vial at 4C prior to opening. This product is stable at 4C as an undiluted liquid. Dilute only prior to immediate use.</p> <p>No test method can provide total assurance that the hepatitis B virus, hepatitis C virus, human immunodeficiency virus, or any other infectious agents are absent. Thus, all blood products, including purified proteins derived from human blood sources, should be handled at Biosafety Level 2 as recommended by the CDC \NIH manual entitled Biosafety in Microbiological and Biomedical Laboratories for potentially infectious human serum, blood specimens or proteins derived from same. Source material for the human blood product supplied to your facility has been tested for the detection of HIV antibody, Hepatitis B surface antigen, antibody to Hepatitis C, HIV 1 antigen(s), antibody to HTLV - I/II, and syphilis by FDA guidelines. All units were found to be non-reactive/negative for these tests. All human blood source material is collected in FDA licensed centers and is tested with FDA approved test kits.</p>
Gene ID	1281
Gene Symbol	COL3A1
Species	Human
Preparation Method	Prepared from human placenta and is chromatographically and immunologically pure. This product is free from other collagens, human serum proteins and non-collagen extracellular matrix proteins.
Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunoprecipitation, SDS-Page
Recommended Dilutions	Western Blot 1:1000, ELISA 1:10000, Immunohistochemistry 1:100-1:500, Immunoprecipitation 1:100-1:500, SDS-Page
Application Notes	This product has been tested in SDS-Page and western blot and is used as a control or standard in indirect trapping ELISA for quantitation of antigen using a standard curve, for immunoprecipitation, and for other immunological assays as optimized by the user. Specific conditions should be optimized by user. Collagen Type III is recognized by type specific anti-collagen antibodies that recognize a native three-dimensional structure.

Images

Western Blot: Collagen III alpha 1/COL3A1 Native Protein [NBP1-97267] - Western Blot of Collagen III alpha 1/COL3A1. Lane 1: Human Collagen III. Load: 100 ng per lane. Primary antibody: Collagen III Antibody at 1:1000 at 4C. Secondary antibody: DyLight(TM) 649 Goat anti-rabbit at 1:20,000 for 30 min at RT. Block for 30 min at RT. Predicted/Observed size: 138 kDa, 138 kDa.



SDS-Page: Collagen III alpha 1/COL3A1 Native Protein [NBP1-97267] - SDS-PAGE Results of Collagen III alpha 1/COL3A1 Native protein. Lane 1: Collagen III alpha 1/COL3A1 Native protein Reduced [1.0ug]. Lane 2: Opal Prestained Molecular Weight Marker. Lane 3: Collagen III alpha 1/COL3A1 Native protein Non-Reduced [1.0ug]. 4-20% Gel Coomassie Stained. Observed: alpha1 bands.



Publications

Madison J, Wilhelm K, Meehan DT et al. Glomerular basement membrane deposition of collagen $\alpha 1(\text{III})$ in Alport glomeruli by mesangial filopodia injures podocytes via aberrant signaling through DDR1 and integrin $\alpha 2\beta 1$ The Journal of Pathology 2022-09-01 [PMID: 35607980]



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 NBP1-97267

NBP1-97244	Collagen III alpha 1/COL3A1 Native Protein
7754-BH-005/CF	TGF-beta 1 [Unconjugated]
NB600-594	Collagen III alpha 1/COL3A1 Antibody
NB600-408-0.1mg	Collagen I Antibody

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Peptides and proteins are guaranteed for 3 months from date of receipt.

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