

Product Datasheet

Collagen VI Native Protein

NBP1-97270

Unit Size: 0.5 mg

Store at 4C.

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NBP1-97270

Collagen VI 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.
Preservative	0.01% Sodium Azide
Purity	Chromatography
Buffer	0.5 M Acetic Acid

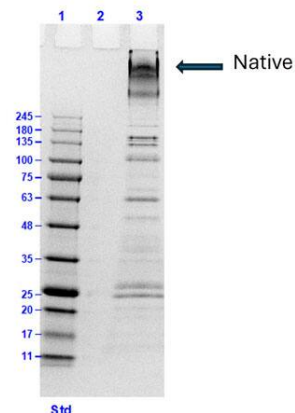
Product Description	
Description	<p>Native Human Collagen VI alpha 1</p> <p>Source: Human placenta (Accession #:P12109)</p> <p>Store vial at 4C prior to opening. This product is stable at 4C as an undiluted liquid. Dilute only prior to immediate use.</p> <p>No test method can provide total assurance 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	1291
Gene Symbol	COL6A1
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
Recommended Dilutions	Western Blot 1:1000, ELISA 1:10000, Immunohistochemistry 1:100-1:500
Application Notes	This product has been tested in SDS-Page and is used as a control in ELISA and western blot. Collagen type VI is recognized by type specific anti-collagen antibodies that recognize a native three-dimensional structure.

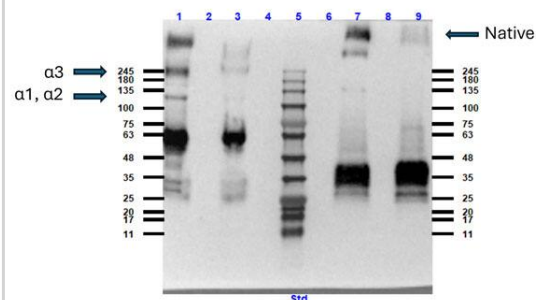


Images

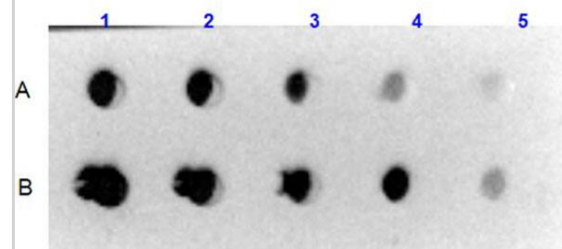
SDS-Page: Collagen VI alpha 1 Native Protein [NBP1-97270] - SDS-PAGE results of Collagen VI alpha 1 Native Protein. Lane: 1) Opal prestain molecular weight marker, 2) blank, 3) Collagen VI alpha 1 Native Protein [10µg]. Coomassie stained.



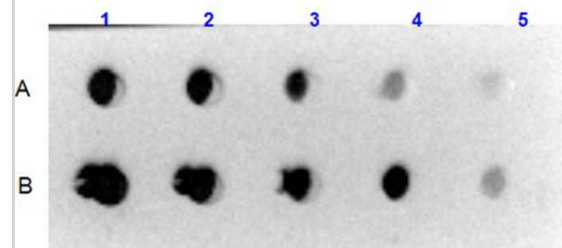
Western Blot: Collagen VI alpha 1 Native Protein [NBP1-97270] - Western blot results using Collagen VI alpha 1 Native Protein. Lane: 1) Human Collagen Type VI reduced and boiled, 3) Human Collagen Type VI reduced and not boiled, 5) Opal pre-stained molecular weight marker, 7) Human Collagen Type VI not reduced and boiled, 9) Human Collagen Type VI not reduced and not boiled. Lanes 2, 4, 6, 8 blank. Load: 10µg. Primary Antibody: Collagen VI alpha 1 Native Protein 1:500 overnight at 2-8°C. Secondary Antibody: Goat anti-Rabbit IgG HRP conjugated 1:40,000 at RT for 30mins. Blocking: BlockOut® Universal Blocking Buffer at RT for 1hr.



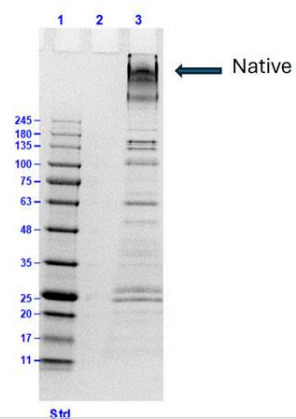
Dot Blot: Collagen VI alpha 1 Native Protein [NBP1-97270] - Collagen VI alpha 1 Native Protein. Sample: A) Human Collagen VI, B) Bovine/Human Collagen VI. Load: 1) 1000ng, 2) 333.33ng, 3) 111.11ng, 4) 37.03ng, 5) 12.35ng. Primary Antibody: Rabbit Anti-Collagen VI antibody at 5µg/mL at RT for 1hr. Secondary Antibody: Goat Anti-Rabbit IgG HRP Conjugated 1:40,000 at RT for 30mins. Blocking: BlockOut® Universal Blocking Buffer at RT for 30mins.



Dot Blot results using Rabbit Anti-Collagen VI Antibody. Sample: A) Human Collagen VI, B) Bovine/Human Collagen VI. Load: 1) 1000ng, 2) 333.33ng, 3) 111.11ng, 4) 37.03ng, 5) 12.35ng. Primary Antibody: Rabbit Anti-Collagen VI antibody at 5µg/mL at RT for 1hr. Secondary Antibody: Goat Anti-Rabbit IgG HRP Conjugated 1:40,000 at RT for 30mins. Blocking: Blocking Buffer at RT for 30mins.



SDS-PAGE results of Human Collagen Type VI. Lane: 1) Opal prestain molecular weight marker , 2) blank, 3) Human Collagen Type VI [10µg]. Coomassie stained.



Publications

Sano T, Ochiai T, Nagayama T et al. Genetic reduction of insulin signaling mitigates amyloid- β deposition by promoting expression of extracellular matrix proteins in the brain *The Journal of neuroscience : the official journal of the Society for Neuroscience* 2023-09-11 [PMID: 37699718]



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 NBP1-97270

NBP1-97247	Collagen VI Native Protein
7954-GM-010/CF	GM-CSF [Unconjugated]
NB120-6588	Collagen VI Antibody - BSA Free
NB600-408-0.1mg	Collagen I Antibody - BSA Free

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 1 year from date of receipt.

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