

Product Datasheet

Collagen III alpha 1/COL3A1 Antibody (1E7-D7/Col3) - BSA Free NBP1-05119

Unit Size: 100 ug

Store at 4C in the dark.

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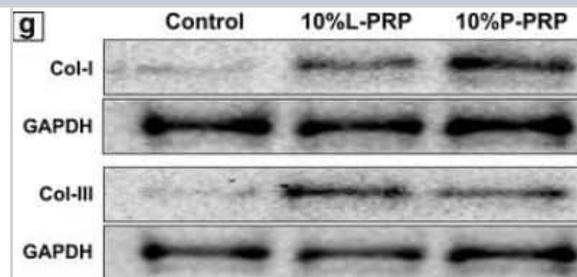
NBP1-05119

Collagen III alpha 1/COL3A1 Antibody (1E7-D7/Col3) - BSA Free

Product Information	
Unit Size	100 ug
Concentration	1.0 mg/ml
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	1E7-D7/Col3
Preservative	0.9% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM Phosphate buffer (pH 7.4), 0.5 M NaCl
Target Molecular Weight	139 kDa
Product Description	
Host	Mouse
Gene ID	1281
Gene Symbol	COL3A1
Species	Human, Mouse, Rat, Canine, Kangaroo, Rabbit
Reactivity Notes	Rabbit reactivity reported in scientific literature (PMID: 26373929). Mouse reactivity reported in scientific literature (PMID: 30594070).
Specificity/Sensitivity	Highly specific for type III collagen. It has been shown to have no cross reactivity with type I and V collagens by ELISA and immunoblotting. There is no evidence for cross-reactivity with other connective tissue proteins (laminin, fibronectin, elastin).
Immunogen	This Collagen III alpha 1/COL3A1 Antibody (1E7-D7/Col3) was developed against acid-digested pepsin soluble human type III collagen
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:100 - 1:2000, ELISA 1:800, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence 1:100 - 1:300, Immunohistochemistry-Paraffin 1:10 - 1:500, Immunohistochemistry-Frozen
Application Notes	Use in Immunohistochemistry-Frozen reported in scientific literature (PMID: 30405320). ELISA: NBP1-05119 can be used for detection of collagens by ELISA. WB: In immunoblotting NBP1-05119 detects type III collagen only in its native triple helix form. IHC: NBP1-05119 has been used successfully for immunohistology on frozen unfixed sections of human (5) and kangaroo (6) skin, and of new dog tissue associated with biomaterial implants. (7, 8) If fixation of tissue is required, acetone or ethanol is recommended. (5, 6, 7, 8).

Images

Western Blot: Collagen III alpha 1/COL3A1 Antibody (1E7-D7/Col3) - BSA Free [NBP1-05119] - Western blot analysis on total proteins extracted from cells cultured with L-PRP or P-PRP. Collagen I protein band was robust in the P-PRP-treated group; collagen III alpha 1 protein band was more abundant in the L-PRP-treated cells. Image collected and cropped by CiteAb from the following publication (<https://stemcellres.com/content/6/1/173>) licensed under a CC-BY license.



Immunohistochemistry-Paraffin: Collagen III alpha 1/COL3A1 Antibody (1E7-D7/Col3) - BSA Free [NBP1-05119] - Human bronchus tissue



Publications

Zhang D, Liu B, Jie X et al. Uncovering Bupi Yishen Formula Pharmacological Mechanisms Against Chronic Kidney Disease by Network Pharmacology and Experimental Validation *Frontiers in Pharmacology* 2021-11-15 [PMID: 34867380] (Western Blot, Block/Neutralize)

Yu L, Rao WT, Tang JD, Xing JF. Experimental investigation of early assessment of corpora cavernosa fibrosis with two-dimensional shear wave elastography *Asian Journal of Andrology* 2022-01-01 [PMID: 34494557] (Immunohistochemistry)

Liu C, Zhou D, Zhang Q et al. Transcription factor EB (TFEB) improves ventricular remodeling after myocardial infarction by inhibiting Wnt/ β -catenin signaling pathway *PeerJ* 2023-08-18 [PMID: 37609444] (Western Blot, Block/Neutralize)

Jiang X, Wojtkiewicz M, Patwardhan C et al. The effects of maturation and aging on the rotator cuff tendon-to-bone interface *The FASEB Journal* 2022-03-18 [PMID: 34822203] (Block/Neutralize)

Aslaner DM, Alghothani O, SaldaNa TA et al. E-cigarette vapor exposure in utero causes long-term pulmonary effects in offspring *American journal of physiology. Lung cellular and molecular physiology* 2022-10-11 [PMID: 36218276] (WB)

Li WH, Seo I, Kim B et al. Low-Level Red Plus Near Infrared Lights Combination Induces Expressions of Collagen and Elastin in Human Skin In Vitro *International journal of cosmetic science* 2021-02-16 [PMID: 33594706]

Boumil E, Castro N, Phillips A et al. USP10 targeted self-deliverable siRNA to prevent scarring in the cornea *Nucleic Acids* 2020-07-01 [PMID: 32829179] (IHC-Fr, Rabbit)

Details:

Citation using the Biotin format of this antibody.

Learn G D, McClellan P E et al. Woven collagen biotextiles enable mechanically functional rotator cuff tendon regeneration during repair of segmental tendon defects in vivo. *J Biomed Mater Res B Appl Biomater* 2019-01-08 [PMID: 30485649] (IF/IHC, Rabbit)

Huynh T, Kim J, Dunlap G et al. In-vivo testing of an injectable matrix gel for the treatment of shoulder cuff muscle fatty degeneration *Journal of Shoulder and Elbow Surgery* 2020-06-01 [PMID: 32713662] (IF/IHC, IHC-Fr, Rabbit, Rat)

Matsuo M Vitamin C and eggshell membrane facilitate orthodontic tooth movement and induce histological changes in the periodontal tissue *J Oral Biosci* 2020-02-04 [PMID: 32032751] (ICC/IF, Rat)

Ramani Kritika, Tan Roderick J, Zhou Dong et al. IL-17 Receptor Signaling Negatively Regulates the Development of Tubulointerstitial Fibrosis in the Kidney. *Mediators of Inflammation* 2018-10-14 [PMID: 30405320] (IHC-Fr, Mouse)

Cui H, He Y, Chen S et al. Macrophage-Derived miRNA-Containing Exosomes Induce Peritendinous Fibrosis after Tendon Injury through the miR-21-5p/Smad7 Pathway *Mol Ther Nucleic Acids* 2018-11-20 [PMID: 30594070] (WB, Mouse)

More publications at <http://www.novusbio.com/NBP1-05119>



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Products Related to NBP1-05119

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP1-97267	Collagen III alpha 1/COL3A1 Native Protein

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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