

# Product Datasheet

## Elastin Antibody (BA-4) NB100-2076

Unit Size: 0.5 ml

Store at 4C.

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



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

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Updated 10/23/2024 v.20.1

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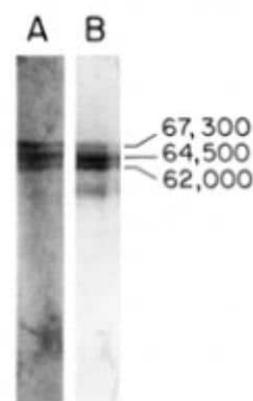
**NB100-2076**

Elastin Antibody (BA-4)

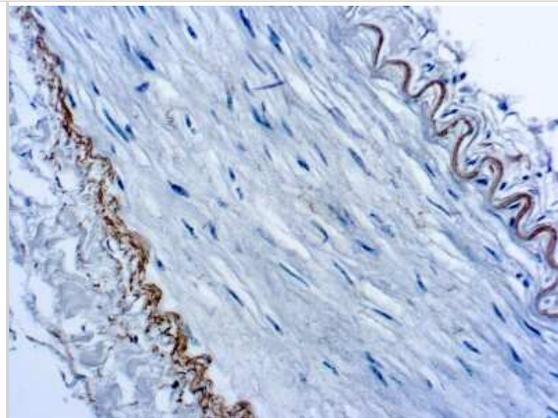
Product Information	
Unit Size	0.5 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C.
Clonality	Monoclonal
Clone	BA-4
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Ascites
Buffer	Ascites
Product Description	
Host	Mouse
Gene ID	2006
Gene Symbol	ELN
Species	Human, Bovine, Feline, Rabbit
Reactivity Notes	Rabbit reactivity reported in scientific literature (PMID: 30214669). Feline reactivity reported in scientific literature (PMID:33091431)
Specificity/Sensitivity	This recognizes insoluble elastin, alpha-elastin, soluble non-cross linked precursor of elastin (tropoelastin).
Immunogen	Bovine alpha-Elastin.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:100-1:2000, Immunohistochemistry 1:25-1:50, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen
Application Notes	Use in Immunohistochemistry-Frozen reported in scientific literature (PMID: 30214669).. Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID:33091431).

**Images**

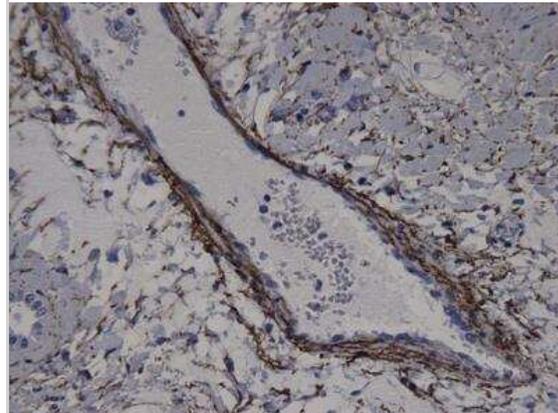
Western Blot: Elastin Antibody (BA-4) [NB100-2076] - Analysis of tropoelastin using the mAb BA-4 elastin antibody (NB100-2076). A: Western blot of tropoelastin purified from bovine ligamentum nuchae tissue minces. B: Autoradiogram of a gradient SDS-polyacrylamide gel showing [<sup>3</sup>H] leucine-labeled tropoelasti.



Immunohistochemistry-Paraffin: Elastin Antibody (BA-4) [NB100-2076] - Formalin fixed paraffin embedded human renal cell carcinoma stained with Elastin antibody (NB100-2076)



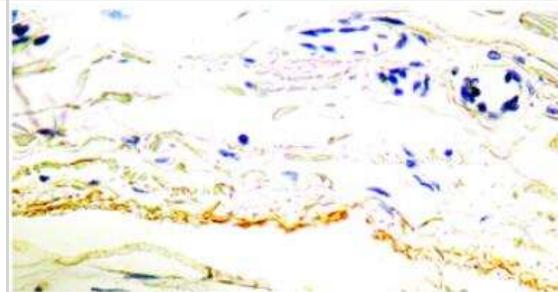
Immunohistochemistry-Paraffin: Elastin Antibody (BA-4) [NB100-2076] - Elastin surrounding blood vessel in pig testis. Image from verified customer review.



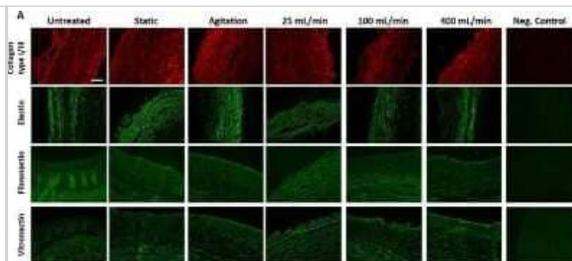
Immunohistochemistry-Paraffin: Elastin Antibody (BA-4) [NB100-2076] - Analysis of elastin using clone BA-4 (NB100-2076) in formalin-fixed, paraffin embedded human first trimester decidua. H&E counterstain. Original magnification X100.



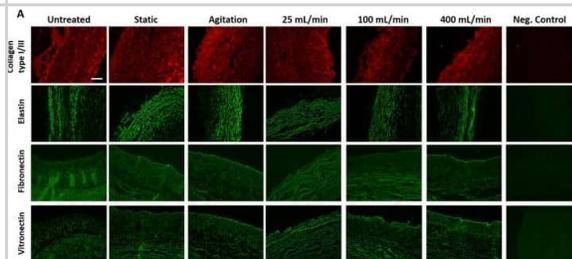
Immunohistochemistry-Paraffin: Elastin Antibody (BA-4) [NB100-2076] - Formalin fixed paraffin embedded human kidney stained with Elastin antibody.



**Immunohistochemistry-Paraffin: Elastin Antibody (BA-4) [NB100-2076]** - Presence of ECM proteins collagen, elastin, fibronectin, vitronectin and GAGs following decellularization. Porcine vena cava were decellularized and analyzed for ECM proteins. Cross-section of paraffin embedded samples were immunostained for collagen type I/III, elastin, fibronectin and vitronectin. Images were taken at identical microscopy settings. Scale bar is 100  $\mu$ m. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0220743>), licensed under a CC-BY license.



**Immunocytochemistry/ Immunofluorescence: Elastin Antibody (BA-4) [NB100-2076]** - Presence of ECM proteins collagen, elastin, fibronectin, vitronectin & GAGs following decellularization. Porcine vena cava were decellularized & analyzed for ECM proteins. (A) Cross-section of paraffin embedded samples were immunostained for collagen type I/III, elastin, fibronectin & vitronectin. Images were taken at identical microscopy settings. Scale bar is 100  $\mu$ m. (B-E) Quantification of ECM components with commercially available kits from 20–30 mg wet tissue (B) soluble collagen, (C) insoluble collagen, (D) elastin, & (E) GAGs. Fluorescence intensity of samples immunostained for (F) fibronectin & (G) vitronectin. The fluorescence intensity was quantified with ImageJ, & the values were normalized to the untreated group. n = 5 for all groups. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31381614>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Manon J, Evrard R, Fiev□ L et al. A New Osteogenic Membrane to Enhance Bone Healing: At the Crossroads between the Periosteum, the Induced Membrane, and the Diamond Concept Bioengineering (Basel) 2023-01-21 [PMID: 36829637] (Immunohistochemistry, Immunocytochemistry/ Immunofluorescence)

Manon J, Evrard R, Maistriaux L et al. Periosteum and fascia lata: Are they so different? Frontiers in Bioengineering and Biotechnology 2022-10-19 [PMID: 36338112] (Immunohistochemistry, Immunocytochemistry/ Immunofluorescence)

Liu J, Feng Z, Liu P et al. Transcriptome Analysis of Human Vascular Smooth Muscle Cells Cultured on a Polyglycolic Acid Mesh Scaffold Journal of Tissue Engineering and Regenerative Medicine 2023-06-22 (WB, Human)

Gonzalez BA, Herrera A, Ponce C et al. Stem Cell-Secreted Allogeneic Elastin-Rich Matrix with Subsequent Decellularization for the Treatment of Critical Valve Diseases in the Young Bioengineering (Basel, Switzerland) 2022-10-20 [PMID: 36290556] (IHC-Fr, Human)

Gong H, Chen L, He Y et al. Pleural thickening induced by *Glaesserella parasuis* infection was linked to increased collagen and elastin Frontiers in cellular and infection microbiology 2022-08-11 [PMID: 36034702] (IHC-P, Porcine)

Xiao W, Chen W, Wang Y et al. Recombinant DT beta 4-inspired porous 3D vascular graft enhanced antithrombogenicity and recruited circulating CD93+/CD34+ cells for endothelialization Science advances 2022-07-15 [PMID: 35857526] (ICC/IF, Rat)

Oikawa K, Teixeira LBC, Keikhosravi A et al. Microstructure and resident cell-types of the feline optic nerve head resemble that of humans Exp Eye Res 2020-10-19 [PMID: 33091431] (ICC/IF, Feline)

Simsa R, Vila XM, Salzer E et al. Effect of fluid dynamics on decellularization efficacy and mechanical properties of blood vessels PLoS ONE 2019-08-05 [PMID: 31381614] (IHC-P, Porcine)

Phinikaridou A, Lacerda S, Lavin B. Tropoelastin: a novel marker for plaque progression and instability Circulation: Cardiovascular Imaging 1905-07-10 [PMID: 30214669] (IHC-Fr, Rabbit)

Wrenn DS, Griffin GL, Senior RM, Mecham RP. Characterization of biologically active domains on elastin: identification of a monoclonal antibody to a cell recognition site. Biochemistry. 1986-09-09 [PMID: 2429696]

Krasinski Z, Biskupski P, Dzieciuchowicz L et al. The influence of elastic components of the venous wall on the biomechanical properties of different veins used for arterial reconstruction. Eur J Vasc Endovasc Surg 2010-08-01 [PMID: 20570188] (IF/IHC, Human)





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### **Products Related to NB100-2076**

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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)
NBP2-33805PEP	Elastin Recombinant Protein Antigen

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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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