

Product Datasheet

Elastin Antibody (BA-4) NB100-2076

Unit Size: 0.5 ml

Store at 4C.

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NB100-2076

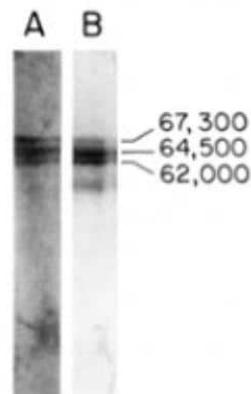
Elastin Antibody (BA-4)

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	
Description	Novus Biologicals Mouse Elastin Antibody (BA-4) (NB100-2076) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Elastin Antibody: Cited in 10 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
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).

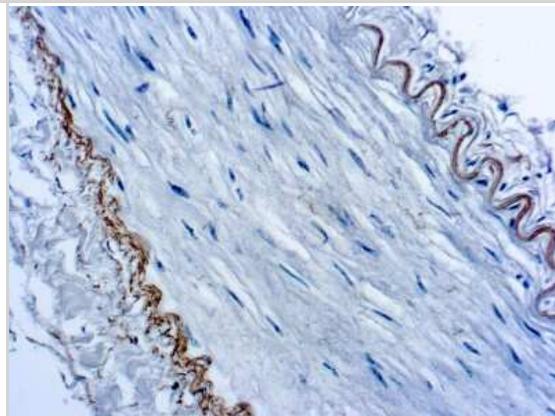


Images

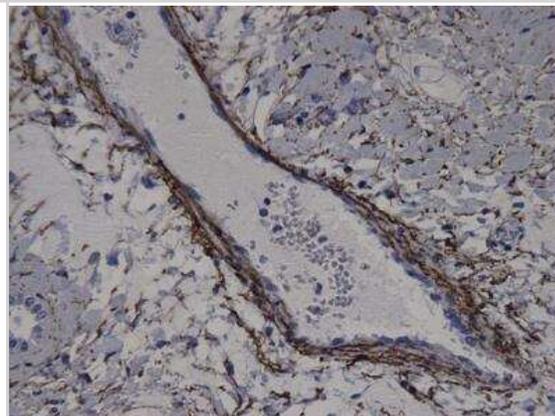
Western Blot: Elastin Antibody (BA-4) [NB100-2076] - Analysis of tropoelastin using the mAb BA-4 elastin antibody (NB100-2076). A: Western blot of tropoelastin purified from bovine ligamentum nuchae tissue minces. B: Autoradiogram of a gradient SDS-polyacrylamide gel showing [³H] leucine-labeled tropoelasti.



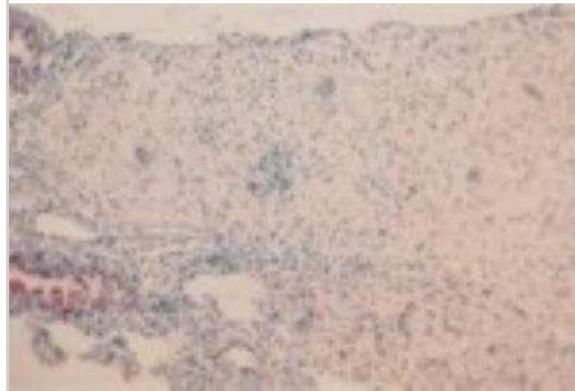
Immunohistochemistry-Paraffin: Elastin Antibody (BA-4) [NB100-2076] - Formalin fixed paraffin embedded human renal cell carcinoma stained with Elastin antibody (NB100-2076)



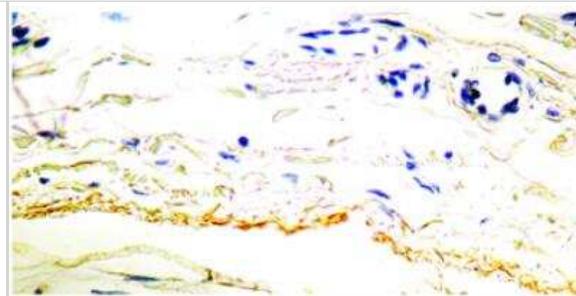
Immunohistochemistry-Paraffin: Elastin Antibody (BA-4) [NB100-2076] - Elastin surrounding blood vessel in pig testis. Image from verified customer review.



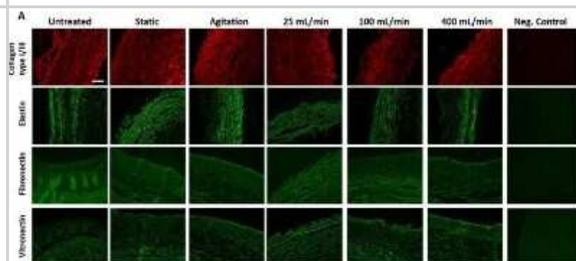
Immunohistochemistry-Paraffin: Elastin Antibody (BA-4) [NB100-2076] - Analysis of elastin using clone BA-4 (NB100-2076) in formalin-fixed, paraffin embedded human first trimester decidua. H&E counterstain. Original magnification X100.



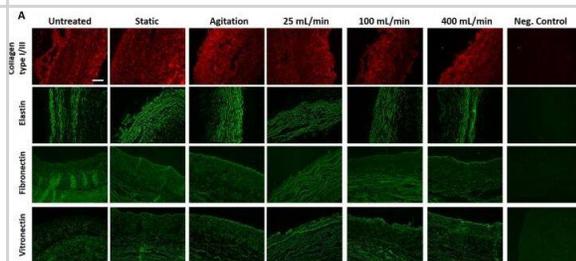
Immunohistochemistry-Paraffin: Elastin Antibody (BA-4) [NB100-2076] - Formalin fixed paraffin embedded human kidney stained with Elastin antibody.



Immunohistochemistry-Paraffin: Elastin Antibody (BA-4) [NB100-2076] - Presence of ECM proteins collagen, elastin, fibronectin, vitronectin and GAGs following decellularization. Porcine vena cavae 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 μ 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 cavae 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 μ 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 \square 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]

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]

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

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

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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