

Product Datasheet

eNOS Antibody - BSA Free

NB300-500

Unit Size: 100 uL

Store at -20C. Avoid freeze-thaw cycles.

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NB300-500

eNOS Antibody - BSA Free

Product Information

Unit Size	100 uL
Concentration	1.0 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	133 kDa

Product Description

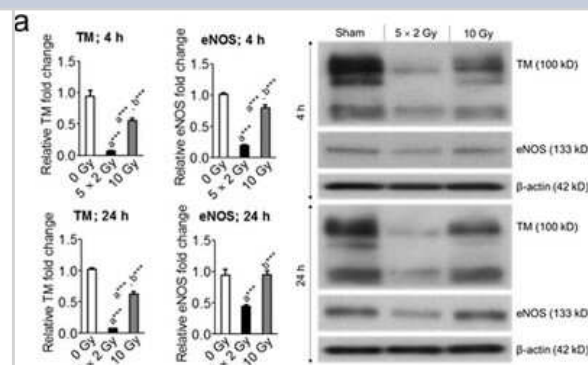
Host	Rabbit
Gene ID	4846
Gene Symbol	NOS3
Species	Human, Mouse, Rat, Porcine, Amphibian, Bovine, Canine, Drosophila, Sheep
Reactivity Notes	Sheep reactivity reported in scientific literature (PMID: 31352175).
Specificity/Sensitivity	This does not detect human inducible NOS or rat brain NOS.
Immunogen	Synthetic peptide corresponding to residues S(1179) LQERQLRGAVPWAFD (1194) of human eNOS.

Product Application Details

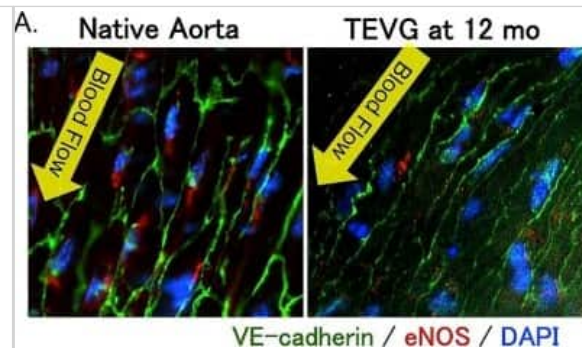
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:50-1:1000, Immunohistochemistry 1:10 - 1:500, Immunohistochemistry-Paraffin 1:100, Immunohistochemistry-Frozen 1:100
Application Notes	In IHC, antigen retrieval is not essential but may optimize staining. By Western blot, a 140kDa band is seen in human endothelial cells. Optimal dilutions should be determined by the end user.

Images

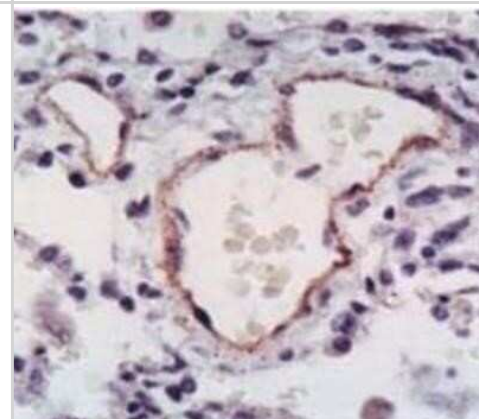
Western Blot: eNOS Antibody - BSA Free [NB300-500] - Fractionated, compared to single exposure, radiation more profoundly suppressed TM and eNOS. Representative Western blot analysis and quantification of KLF2 (n = 5) and KLF4 (n = 3) levels in whole-cell lysates from nonirradiated (sham) and irradiated HUVECs 4 h and 24 h after exposure to either five fractions of 2 Gy (5 x 2 Gy) or single exposure to 10 Gy. Fractions delivered at 24-h intervals. Image collected and cropped by CiteAb from the following publication (<http://pubmed.ncbi.nlm.nih.gov/32382091/>) licensed under a CC-BY license.



Immunohistochemistry-Paraffin: eNOS Antibody - BSA Free [NB300-500] - Expression of endothelial markers indicate functional endothelium in TEVG. Whole mount staining of native aorta and TEVG. VE-cadherin is a marker of cellular borders of endothelial cells (green). Endothelial nitric oxide synthase (eNOS) is a marker of a functional endothelium (red). DAPI is a nuclear stain (blue). Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0120328>), licensed under a CC-BY license.



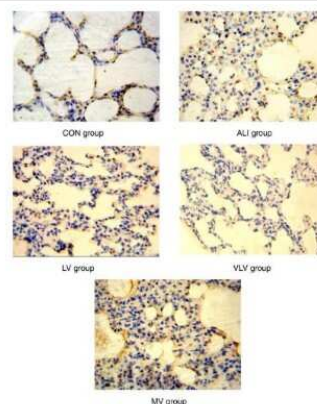
Immunohistochemistry-Paraffin: eNOS Antibody - BSA Free [NB300-500] - Staining of eNOS in human lung tissue.



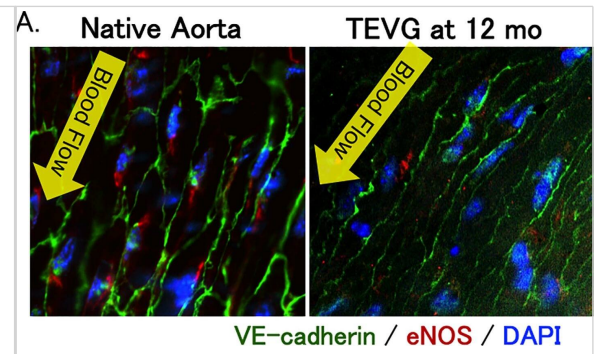
Immunohistochemistry-Paraffin: eNOS Antibody - BSA Free [NB300-500] - Mouse Carotid Artery stained with eNOS antibody. Image from verified customer review.



Immunohistochemistry: eNOS Antibody - BSA Free [NB300-500] - Staining of representative pulmonary artery endothelial cells from rats subjected to CON=Control Group, ALI=Acute lung injury Group, LV=Low tidal volume Group, VLV=Very low tidal volume Group, MV=Large tidal volume Group. Dark brown staining of indicates eNOS-positive cells. Magnification x400.



Expression of endothelial markers indicate functional endothelium in TEVG. A. Whole mount staining of native aorta and TEVG. VE-cadherin is a marker of cellular borders of endothelial cells (green). Endothelial nitric oxide synthase (eNOS) is a marker of a functional endothelium (red). DAPI is a nuclear stain (blue). B. Real-time PCR analysis of ephrinB2 and eNOS. Ephrin-B2, a marker of arterial vessels. (n = 5–10 in each group)



Publications

Han-Ying Wang, Hiroshi Takagi, Patrick N. Stoney, Anai Echeverria, Bernd Kuhn, Kuei-Sen Hsu, Tomoyuki Takahashi Anoxia-induced hippocampal LTP is regeneratively produced by glutamate and nitric oxide from the neuro-glial-endothelial axis iScience 2024-03-16 [PMID: 38591010]

Caglar Cosarderelioglu, Lolita S Nidadavolu, Claudene J George, Ruth Marx-Rattner, Laura Powell, Qian-Li Xue, Jing Tian, Joy Salib, Esther S Oh, Luigi Ferrucci, Pervin Dincer, David A Bennett, Jeremy D Walston, Peter M Abadir Higher Angiotensin II Type 1 Receptor Levels and Activity in the Postmortem Brains of Older Persons with Alzheimer's Dementia. The journals of gerontology. Series A, Biological sciences and medical sciences 2022-04-05 [PMID: 34914835]

Yuki Hirano, Alex Choi, Masashi Tsuruta, Jen Erh Jaw, Yeni Oh, David Ngan, Konosuke Moritani, Yu-Wei Roy Chen, Sheena Tam, Yuexin Li, Dragos M Vasilescu, James C Hogg, Gordon Francis, Pascal Bernatchez, Shu-Fan Paul Man, Don D Sin Surfactant protein-D deficiency suppresses systemic inflammation and reduces atherosclerosis in ApoE knockout mice. Cardiovascular research 2018-05-21 [PMID: 28472244]

X Geng, K Yanagida, RG Akwii, D Choi, L Chen, Y Ho, B Cha, MR Mahamud, K Berman de, H Ichise, H Chen, J Wythe, CM Mikelis, T Hla, RS Srinivasan S1PR1 regulates the quiescence of lymphatic vessels by inhibiting laminar shear stress-dependent VEGF-C signaling JCI Insight, 2020-07-23;0(0):. 2020-07-23 [PMID: 32544090]

Zhang H, Zha X, Zhang B et al. Dietary rumen-protected L-arginine or N-carbamylglutamate enhances placental amino acid transport and suppresses angiogenesis and steroid anabolism in underfed pregnant ewes Animal Nutrition 2023-08-01 (WB, Sheep)

Cosarderelioglu C, Kreimer S, Plaza-Rodriguez AI et al. Decoding Angiotensin Receptors: TOMAHAQ-Based Detection and Quantification of Angiotensin Type-1 and Type-2 Receptors Journal of the American Heart Association 2023-09-19 [PMID: 37681524] (WB)

SuSnjara P, Mihaljevic Z, Stupin A et al. Consumption of nutritionally enriched hen eggs enhances endothelium-dependent vasodilation via cyclooxygenases□ metabolites in healthy young persons - A randomized study Research Square 2022-11-02 [PMID: 37049437] (WB, Human)

Lee S, Baek S, Lee Y et al. Ginsenoside Rg3-enriched Korean red ginseng extract attenuates Non-Alcoholic Fatty Liver Disease by way of suppressed VCAM-1 expression in liver sinusoidal endothelium Journal of Ginseng Research 2022-10-01 [PMID: 37252282] (FLOW, Mouse)

Patel G, Fury W, Yang H et al. Molecular taxonomy of human ocular outflow tissues defined by single cell transcriptomics Proc Natl Acad Sci U S A 2020-05-23 [PMID: 32439707]

Fujita M, Tanaka N, Sakaguchi Y et al. Small caliber heparin loaded ultrafine microfiber woven graft achieved high patency rate in a preliminary study of canine carotid artery implantation JVS Vasc Sci 2021-10-07 [PMID: 34617041]

Sadhukhan R, Leung J. W. C, et al. Fractionated radiation suppresses Kruppel-like factor 2 pathway to a greater extent than by single exposure to the same total dose. Sci Rep 2020-05-07 [PMID: 32382091] (WB, Human)

Ricardo-da-Silva FY, Armstrong R, Vidal-Dos-Santos M Et al. 17 beta-Estradiol Treatment Protects Lungs Against Brain Death Effects in Female Rat Donor Transplantation 2021-04-01 [PMID: 33031230]

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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 NB300-500

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00004846-Q01-10ug	Recombinant Human eNOS GST (N-Term) 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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