Product Datasheet

eNOS Antibody - BSA Free
NB300-500

Unit Size: 100 uL

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

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Reviews: 3 Publications: 29

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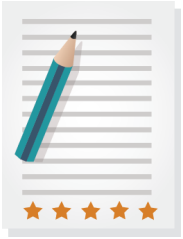
Updated 9/9/2025 v.20.1



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

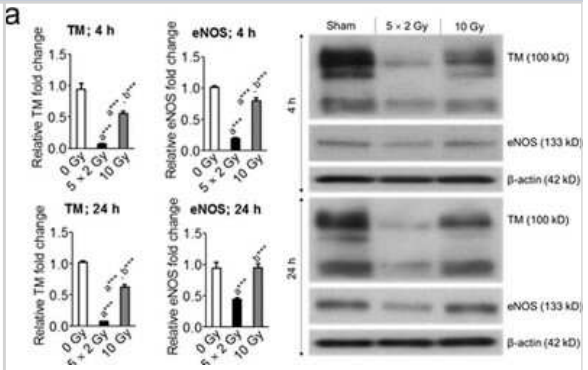
Description	Novus Biologicals Rabbit eNOS Antibody - BSA Free (NB300-500) is a polyclonal antibody validated for use in IHC, WB and Flow. Anti-eNOS Antibody: Cited in 28 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	4846
Gene Symbol	NOS3
Species	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.

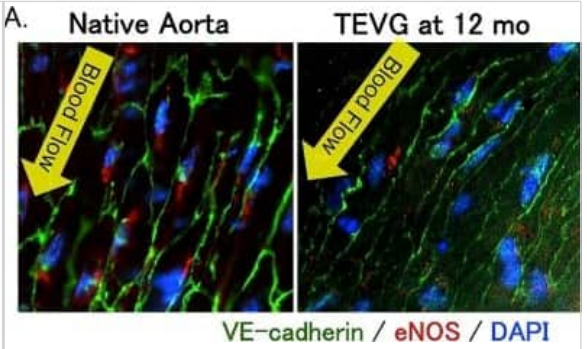
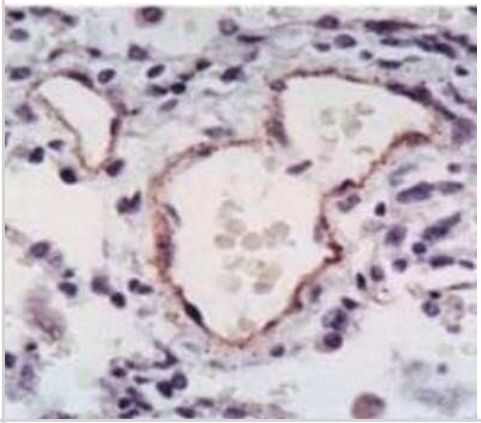
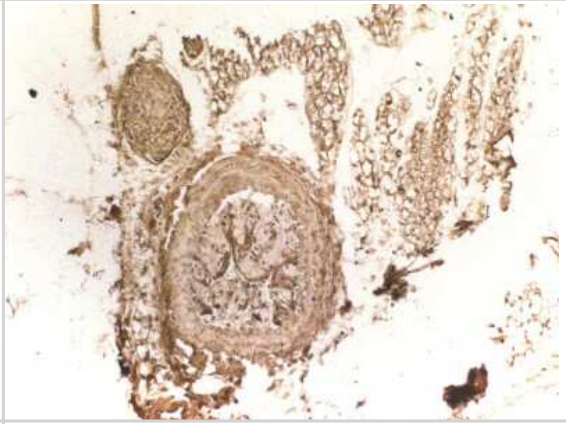
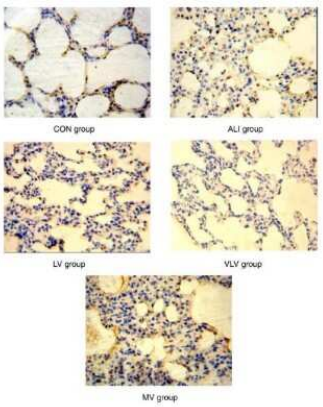
Product Application Details

Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunohistochemistry-Frozen
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.

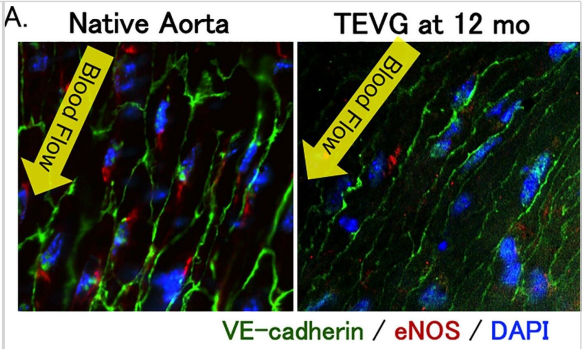
Images

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 (//pubmed.ncbi.nlm.nih.gov/32382091/) licensed under a CC-BY license.

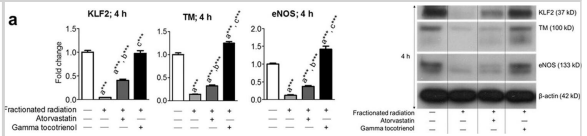


Immunohistochemistry-Paraffin: eNOS Antibody - BSA Free [NB300-500] - Expression of endothelial markers indicate functional endothelium in TEVG. Whole mount staining of native aorta and TEVG. VE-cadherin is a marker of cellular borders of endothelial cells (green). Endothelial nitric oxide synthase (eNOS) 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.	

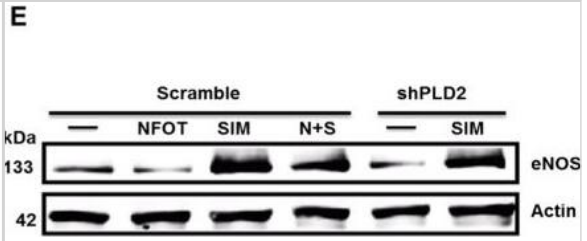
Expression of endothelial markers indicate functional endothelium in TEVG.A. Whole mount staining of native aorta and TEVG. VE-cadherin is a marker of cellular borders of endothelial cells (green). Endothelial nitric oxide synthase (eNOS) is a marker of a functional endothelium (red). DAPI is a nuclear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



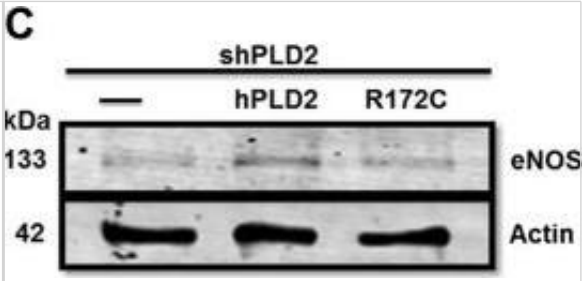
Western Blot: eNOS Antibody - BSA Free [NB300-500] - Mevalonate pathway inhibitors reversed fractionated-radiation–induced suppression of KLF2 & its downstream target molecules. Representative Western blot analysis & quantification of KLF2, TM, & eNOS 4 h after exposure to five fractions of 2 Gy (a) in presence or absence of atorvastatin (1 μM) or GT3 (5 μM) & (b) in presence or absence of GGTi (10 μM) (n = 3). β-actin served as a loading control. (n, number of independent experiments performed; a, significant statistical difference between nonirradiated & irradiated groups; b, significant statistical difference between fractionated irradiation & single exposure; *, p < 0.05; **, p < 0.01; ***, p < 0.001). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/32382091), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: eNOS Antibody - BSA Free [NB300-500] - Upregulation of HMG-CoA reductase in shPLD2 cells decreases eNOS expression. (A) Representative western blot of HMG-CoA reductase in Scramble & shPLD2 cells. The regions of the Western blots containing the HMG-CoA reductase & actin immunoreactive bands were scanned & the relative abundance of the individual samples quantified using an Odyssey CLx imaging system (B) Quantification of western blots with HMG-CoA reductase normalized to actin (n = 4 experiments). (C) N-SIM microscopy of HMG-CoA reductase; Bar, 7.5 μM. (D) RT-PCR of HMG-CoA reductase in Scramble & shPLD2 cells (n = 3). (E) Western blot of eNOS after treatment with NFOT & Simvastatin. Representative image of 3 experiments. The regions of the Western blots (Suppl. Figure 2) containing the eNOS & actin immunoreactive bands were scanned & the relative abundance of the individual samples quantified using an Odyssey CLx imaging system. (F) Quantification of western blots with eNOS levels normalized to actin (n = 3). Comparisons without bars made to untreated Scramble values. (G) eNOS activity after treatment with Simvastatin (n = 7). Mean ± SEM; *p < 0.05; **p < 0.01; ***p ≤ 0.001; One-way ANOVA with Bonferroni's Multiple Comparison Test. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/28831159), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: eNOS Antibody - BSA Free [NB300-500] - The human PLD2 polymorphism R172C does not alter eNOS signaling but does decrease caveolin-1 protein levels. Overexpression of HA-tagged hPLD2 (A) & HA-R172C-PLD2 (B) in HeLa cells, visualized using anti-HA immunofluorescent staining (green). Arrowhead, PLD2 localization in filopodia; chevron, in peripheral actin ruffles; *, in dorsal actin ruffles; arrow, in subcortical actin network. Bar, 7.5 µM. Representative image of multiple experiments. (C) Representative western blot of eNOS after transfection of HA-hPLD2 or HA-R172C-PLD2 into shPLD2 cells. The regions of the Western blots containing the eNOS & actin immunoreactive bands were scanned & the relative abundance of the individual samples quantified using an Odyssey CLx imaging system. (D) Quantification of western blotting with eNOS levels normalized to actin (n = 3). (E) eNOS activity as measured by nitrate formation (n = 7). Lane 1 vs 2, P = 0.0021; lane 2 vs 3, P = 0.00035; lane 2 vs 4, P = 0.00012. (F–I) N-SIM microscopy of plasma membrane eNOS & caveolin-1. Bar, 7.5 µM. Representative image of multiple Scramble or shPLD2 cells imaged. Cells in H & I were selected for imaging based on expression of HA-hPLD2 or HA-R172C-PLD2 as visualized by anti-HA immunofluorescence in a separate channel (not shown). Mean ± SEM; *p < 0.05; **p < 0.01; ***p ≤ 0.001; One-way ANOVA with Bonferroni's Multiple Comparison Test. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/28831159), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

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 Anim Nutr 2023 -08-22 [PMID: 38023379]

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]

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 cyclooygenases□ 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 Cytometry, 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)

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H00004846-Q01-10ug	Recombinant Human eNOS GST (N-Term) Protein

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