

Anti-eNOS (Ab-1177) NOS3 Antibody

Catalog Number: A01604-1

About NOS3

Produces nitric oxide (NO) which is implicated in vascular smooth muscle relaxation through a cGMP-mediated signal transduction pathway. NO mediates vascular endothelial growth factor (VEGF)-induced angiogenesis in coronary vessels and promotes blood clotting through the activation of platelets.

Fulton, D. et al. (1999) Nature 399, 597-601.

Harris, M.B. et al. (2001) J. Biol. Chem. 276, 16587-16591.

Thomas, S.R. et al. (2002) J. Biol. Chem. 277, 6017-6024.

Overview

Product Name	Anti-eNOS (Ab-1177) NOS3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-eNOS (Ab-1177) NOS3 Antibody (Catalog # A01604-1). Tested in WB, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, WB
Clonality	Polyclonal 3A1
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P29474

Technical Details

Immunogen	Peptide sequence around aa.1175~1179 (T-Q-S-F-S) derived from Human eNOS.
Predicted Reactive Species	Bovine, Canine, Equine, Guinea Pig, Rabbit, Zebrafish
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml

Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Predicted MW: 140kd Western blotting: 1:500~1:1000 Immunofluorescence: 1:100~1:200

Anti-eNOS (Ab-1177) NOS3 Antibody (A01604-1) Images

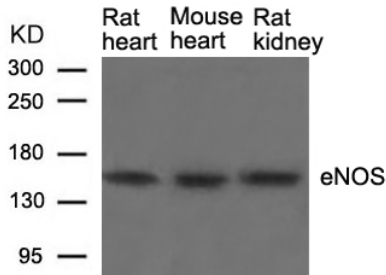
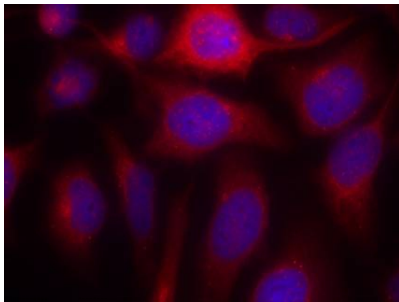


Figure 1. Western blot analysis of NOS3 using anti-NOS3 antibody (A01604-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NOS3 antigen affinity purified polyclonal antibody (Catalog # A01604-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-Rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # SA1022) with Tanon 5200 system. A specific band was detected for NOS3.



Immunofluorescence staining of methanol-fixed HeLa cells using eNOS(Ab-1177) Antibody #A01604-1.

10 Publications Citing This Product

1. PubMed ID: 10.1016/j.brainres.2021.147508, The calcimimetic R-568 attenuates subarachnoid hemorrhage-induced vasospasm through PI3K/Akt/eNOS signaling pathway in the rat model
2. PubMed ID: 33930376, Güleç İ, Engelen A, Karagöz-Güzey F, Önay-Uçar E, Eren B, Vahabova G, Karacan M, Bilgen Özcan T. The calcimimetic R-568 attenuates subarachnoid hemorrhage-induced vasospasm through PI3K/Akt/eNOS signaling pathway in the rat model. Brain Res. 2021 Apr 27;147508. doi:10.1016/j.brainres.2021.147508. Epub ahead of print. PMID:33930376.
3. PubMed ID: 15973775, Expression of endothelial nitric oxide synthase and vascular endothelial growth factor in association with neovascularization in human primary astrocytoma

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