

## Anti-eNOS/NOS3 Antibody

Catalog Number: PA1712-1

### About NOS3

NOS3 (Nitric Oxide Synthase 3), also called eNOS, a nitric oxide synthase that generates NO in blood vessels and is involved with regulating vascular tone by inhibiting smooth muscle contraction and platelet aggregation. The NOS3 gene is mapped on 7q36.1. Variations in this gene are associated with susceptibility to coronary spasm. Fulton et al. (1999) concluded the eNOS is an AKT substrate linking signal transduction by AKT to the release of the gaseous second messenger nitric oxide. AKT mediates the activation of eNOS, leading to increased nitric oxide production. Inhibition of the PI3K AKT pathway or mutation of the AKT site on eNOS protein at serine-1177 attenuated the serine phosphorylation and prevented the activation of eNOS. RT-PCR analysis showed that expression of NOS3 in human umbilical vein endothelial cells (HUVECs) and human aortic vascular smooth muscle cells (HAOVSMCs) was inversely proportional to that of NOS3AS.

### Overview

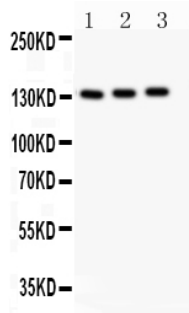
Product Name	Anti-eNOS/NOS3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-eNOS/NOS3 Antibody catalog # PA1712-1. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Conjugate	FITC
Application	IHC, WB
Clonality	Monoclonal BAM-10
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Hamster
Uniprot ID	P29474

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human eNOS, identical to the related mouse sequence, and different from the related rat sequence by one sequence.
Predicted Reactive Species	Canine, Horse, Rabbit
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross reactivity with other proteins

Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen Affinity Purified
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p>

## Anti-eNOS/NOS3 Antibody (PA1712-1) Images



Anti-eNOS antibody, PA1712-1, Western blotting  
All lanes: Anti eNOS (PA1712-1) at 0.5ug/ml  
Lane 1: HELA Whole Cell Lysate at 40ug  
Lane 2: HEPG2 Whole Cell Lysate at 40ug  
Lane 3: COLO320 Whole Cell Lysate at 40ug  
Predicted bind size: 133 KD  
Observed bind size: 133KD

## 14 Publications Citing This Product

1. PubMed ID: 24502809, Tang Yh, Yang Js, Xiang Hy, Xu Jj. Clin Invest Med. 2014 Feb 1;37(1):E26-37. Pi3K-Akt/Enos In Remote Postconditioning Induced By Brief Pulmonary Ischemia.
2. PubMed ID: 23624755, Zhang Jx, Yang Jr, Chen Gx, Tang Lj, Li Wx, Yang H, Kong X. Acta Pharmacol Sin. 2013 Jul;34(7):912-20. Doi: 10.1038/Aps.2013.1. Epub 2013 Apr 29. Sesamin Ameliorates Arterial Dysfunction In Spontaneously Hypertensive Rats Via Downregulation Of Nad...
3. PubMed ID: 23426387, Chen Y, Zhang S, Peng G, Yu J, Liu T, Meng R, Li Z, Zhao Y, Wu G. Int J Oncol. 2013 Apr;42(4):1325-36. Doi: 10.3892/Ijo.2013.1833. Epub 2013 Feb 19. Endothelial No Synthase And Reactive Oxygen Species Mediated Effect Of Simvastatin On Vessel Struc...

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