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antibody and ELISA experts

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3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-eNOS NOS3 Antibody

Catalog Number: A01604

About NOS3

Anti-Glycogen Synthase 1 pS641 antibody is validated by IHC, Western Blot and ELISA. Human muscle glycogen synthase (GS) is responsible for the biosynthesis of glycogen from phosphorylated glucose units. Mammalian liver and muscle contain GS consisting of four subunits with a total molecular weight of 360,000. GS is subject to regulation through both allosteric and covalent modification and occurs in two forms: the phosphorylated inactive form, and the dephosphorylated active form. GS is inactivated by the serine/threonine kinase called glycogen synthase kinase-3 that mainly functions to phosphorylate muscle glycogen synthase. This antibody is specific for the phosphorylated form of GS at S641. Phosphorylation of GS at S641 has been associated with Antiphospholipid Antibody Syndrome.

Overview

Product Name	Anti-eNOS NOS3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-eNOS NOS3 Antibody (Catalog# A01604). Tested in IHC-P, WB application(s). This antibody reacts with Human, Mouse, Rat.
Application	IHC-P, WB
Clonality	Polyclonal
Formulation	Liquid. In PBS, pH 7.2, containing 50% glycerol and 0.09% sodium azide.
Storage Instructions	Store at -20°C for long-term storage. Avoid freeze/thaw cycles.
Host	Rabbit
Uniprot ID	P29474

Technical Details

Immunogen	Synthetic peptide corresponding to the sequence near the C-terminus of human eNOS
Predicted Reactive Species	Bovine, Chicken
Isotype	IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Peptide affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this

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	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: Western Blot (1:1,000, ECL). Detects a band of ~135kDa. Suggested dilutions/conditions may not be available for all applications. Optimal conditions must be determined individually for each application.

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Anti-eNOS NOS3 Antibody (A01604) Images

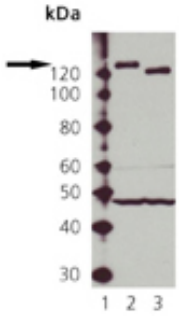

Figure 1. Western blot analysis of NOS3 using anti-NOS3 antibody (A01604).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
After Electrophoresis, proteins 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) 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.

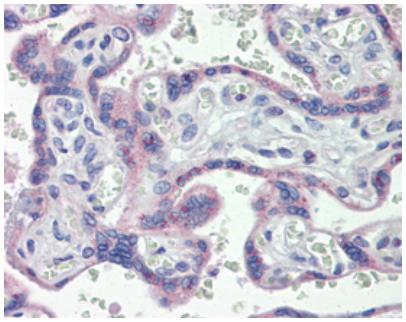

Figure 2. IHC analysis of NOS3 using anti-NOS3 antibody (A01604).
NOS3 was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-NOS3 Antibody (A01604) overnight at 4°C. Biotinylated goat anti Rabbit IgG antibody was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

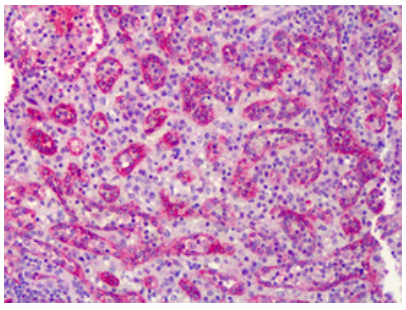

Figure 3. IHC analysis of NOS3 using anti-NOS3 antibody (A01604).
NOS3 was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-NOS3 Antibody (A01604) overnight at 4°C. Biotinylated goat anti Rabbit IgG antibody was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

12 Publications Citing This Product

1. PubMed ID: 10.1080/10520295.2019.1601768, The relation of oxidative stress and apoptosis to histopathologic alterations in the lungs as a result of global cerebral ischemia

2. PubMed ID: 10.1007/s11596-009-0417-5, The Effect of Tanshinone IIA upon the TGF-beta1/Smads signaling pathway in hypertrophic

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myocardium of hypertensive rats

3. PubMed ID: 10.1111/j.1365-2230.2006.02123.x, Expression of endothelial nitric oxide synthase and vascular endothelial growth factor in human malignant melanoma and their relation to angiogenesis

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