BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-eNOS Rabbit Monoclonal Antibody

Catalog Number: M01604-2

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 tocoronary spasm. Fulton et al. 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.

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Overview

Product Name	Anti-eNOS Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	This Recombinant Rabbit Monoclonal Antibody detects endogenous levels of eNOS protein. Validated for research with WB,IHC,IF,IP,ELISA applications. Anti eNOS is reactive for Human, Mouse, Rat samples
Application	ELISA, IP, IF, IHC, WB
Clonality	Monoclonal
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% stabilizing protein This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C/1 year
Host	Rabbit
Uniprot ID	P29474

Technical Details

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Isotype	IgG, Kappa
Purification	Protein A
Suggested Dilutions	IHC 1:1000-1:4000 WB 1:2000-1:10000 IF 1:200-1:1000 ELISA 1:5000-1:20000 IP 1:50-1:200

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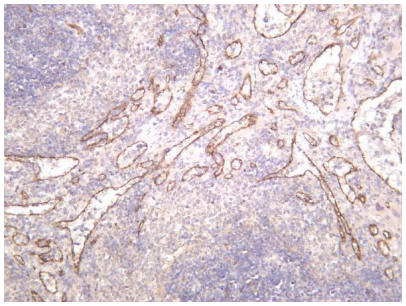
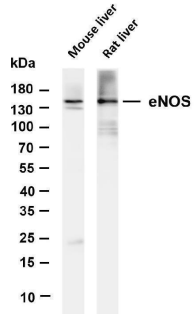
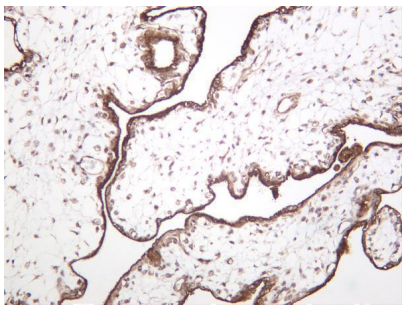
Anti-eNOS Rabbit Monoclonal Antibody (M01604-2) Images



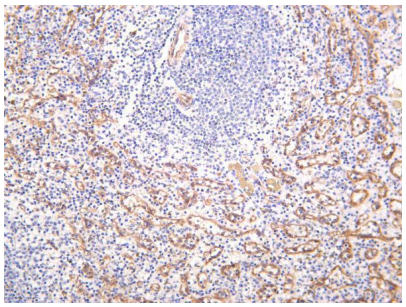
Rat spleen was stained with anti-eNOS rabbit antibody



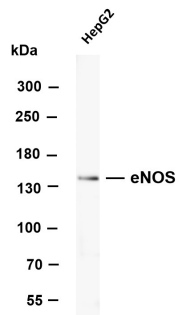
Mouse liver was stained with anti-eNOS rabbit antibody



Human placenta was stained with anti-eNOS rabbit antibody



Human spleen was stained with anti-eNOS rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-eNOS antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HepG2 Predicted band size: 133kDa Observed band size: 133kDa

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