

## Anti-eNOS/NOS3 Antibody Picoband® Fluoro594 Conjugated

Catalog Number: A01604-2-Fluoro594

### 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. 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 Picoband® Fluoro594 Conjugated
Reactive Species	Human, Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (ELISA, Flow Cytometry, IHC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P29474

### Technical Details

Immunogen	E.coli-derived human eNOS/NOS3 recombinant protein (Position: Q1052-P1203).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro594 Excitation Wavelength: 593 nm

	Emission Wavelength: 618 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

## 23 Publications Citing This Product

1. PubMed ID: 10.3760/cma.j.issn.0366-6999.2009.24.026, Propofol improves cardiac functional recovery after ischemia-reperfusion by upregulating nitric oxide synthase activity in the isolated rat hearts
2. PubMed ID: PMID:17417610, Inhibition by brimonidine of forskolin-induced nitric oxide synthase expression in human ciliary bodies in vitro
3. PubMed ID: 10.1039/C6FO00288A, Fucoidan from Undaria pinnatifida prevents vascular dysfunction through PI3K/Akt/eNOS-dependent mechanisms in the L-NAME-induced hypertensive rat model

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