

**Product Name: NOS3 (phospho Ser1177) Rabbit Polyclonal Antibody**  
**Catalog #: APRab05122**

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## Summary

<b>Production Name</b>	NOS3 (phospho Ser1177) Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	ELISA, WB,
<b>Reactivity</b>	Human, Mouse, Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Phospho Antibody
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	NOS3
<b>Alternative Names</b>	NOS3; Nitric oxide synthase; endothelial; Constitutive NOS; cNOS; EC-NOS; Endothelial NOS; eNOS; NOS type III; NOSIII
<b>Gene ID</b>	4846.0
<b>SwissProt ID</b>	P29474. The antiserum was produced against synthesized peptide derived from human eNOS around the phosphorylation site of Ser1176. AA range: 1144-1193

## Application

<b>Dilution Ratio</b>	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
<b>Molecular Weight</b>	130-140kD

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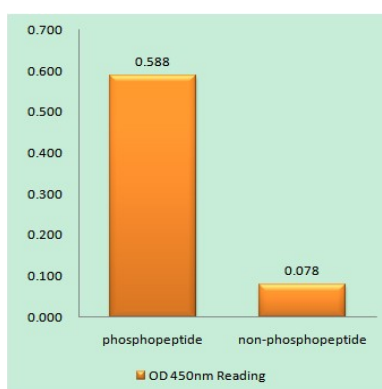
## Background

Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. Nitric oxide is synthesized from L-arginine by nitric oxide synthases. Variations in this gene are associated with susceptibility to coronary spasm. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009], catalytic activity: L-arginine + n NADPH + n H<sup>(+)</sup> + m O<sub>2</sub> = citrulline + nitric oxide + n NADP<sup>(+)</sup>, cofactor: Binds 1 FAD, cofactor: Binds 1 FMN, cofactor: Heme group, cofactor: Tetrahydrobiopterin (BH<sub>4</sub>). May stabilize the dimeric form of the enzyme, enzyme regulation: Stimulated by calcium/calmodulin. Inhibited by NOSIP and NOSTRIN, function: 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, online information: Nitric oxide synthase entry, polymorphism: Variation in NOS3 seem to be associated with susceptibility to coronary spasm, similarity: Belongs to the NOS family, similarity: Contains 1 FAD-binding FR-type domain, similarity: Contains 1 flavodoxin-like domain, subcellular location: Specifically associates with actin cytoskeleton in the G2 phase of the cell cycle; which is favored by interaction with NOSIP and results in a reduced enzymatic activity, subunit: Homodimer. Interacts with NOSIP and NOSTRIN, tissue specificity: Platelets, placenta, liver and kidney,

## Research Area

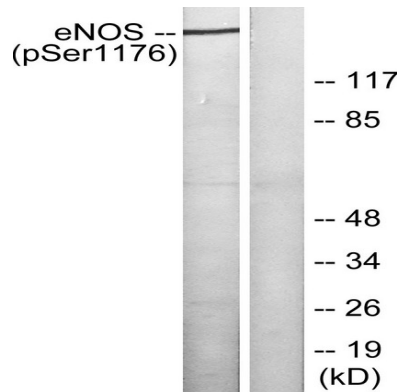
Regulates Angiogenesis; AMPK; PI3K/Akt; Protein\_Acetylation

## Image Data

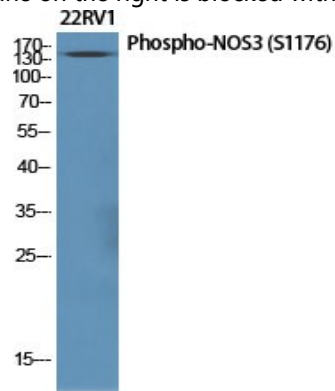


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using eNOS (Phospho-Ser1176) Antibody

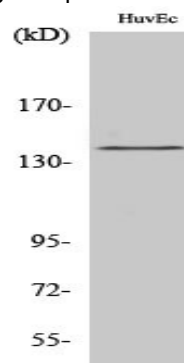
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Western blot analysis of lysates from HeLa cells treated with Insulin 0.01U/ml 15', using eNOS (Phospho-Ser1176) Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of various cells using Phospho-NOS3 (S1177) Polyclonal Antibody diluted at 1: 1000



Western Blot analysis of HuvEc cells using Phospho-NOS3 (S1177) Polyclonal Antibody diluted at 1: 1000

## Note

For research use only.