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**Product Name: NOS3 (phospho Ser615) Rabbit Polyclonal Antibody****Catalog #: APRab05123**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Phosphorylated
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,ELISA 1:20000-1:40000
<b>Molecular Weight</b>	130-140kDa

**Antigen Information**

<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
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human eNOS around the phosphorylation site of Ser615. AA range:581-630

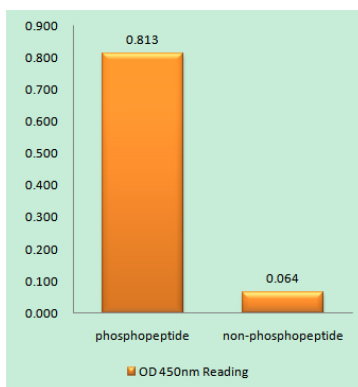
**Background**

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(+) + m O(2) = citrulline + nitric oxide + n NADP(+),cofactor: Binds 1 FAD,cofactor: Binds 1 FMN,cofactor: Heme group,cofactor: Tetrahydrobiopterin (BH4). 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,

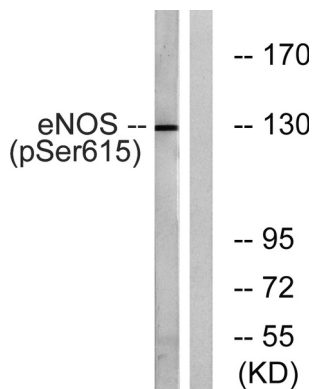
## Research Area

Regulates Angiogenesis; AMPK; Akt\_PKB; Protein\_Acetylation

## Image Data



Enzyme-Linked Immunosorbent Assay ( Phospho-ELISA ) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right) , using eNOS (Phospho-Ser615) Antibody



Western blot analysis of lysates from K562 cells treated with EGF 40nM 30', using eNOS (Phospho-Ser615) Antibody. The lane on the right is blocked with the phospho peptide.

