
Product Name: NOS3 (phospho Thr494) Rabbit Polyclonal Antibody**Catalog #: APRab05124**

For research use only.

Summary

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

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:5000-1:10000
Molecular Weight	130-140kDa

Antigen Information

Gene Name	NOS3
Alternative Names	NOS3; Nitric oxide synthase; endothelial; Constitutive NOS; cNOS; EC-NOS; Endothelial NOS; eNOS; NOS type III; NOSIII
Gene ID	4846.0
SwissProt ID	P29474
Immunogen	The antiserum was produced against synthesized peptide derived from human eNOS around the phosphorylation site of Thr494. AA range:462-511

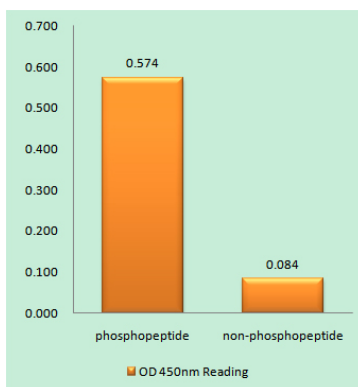
Background

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,.

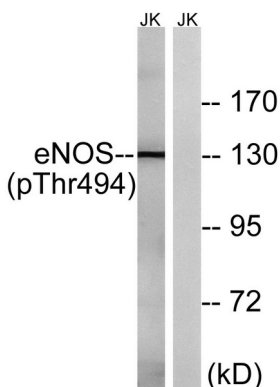
Research Area

Regulates Angiogenesis; AMPK; PI3K/Akt; Protein_Acetylation

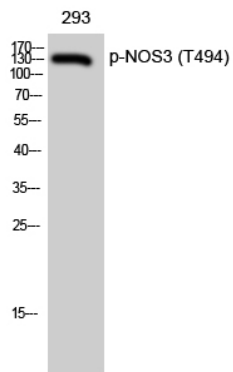
Image Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right) , using eNOS (Phospho-Thr494) Antibody



Western blot analysis of lysates from Jurkat cells, using eNOS (Phospho-Thr494) Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of 293 cells using Phospho-NOS3 (T494) Polyclonal Antibody diluted at 1 : 1000