

产品名称: NOS3 (phospho Ser1177) Rabbit Polyclonal Antibody
产品货号: APRab05122



产品概述 (Summary)

产品名称 (Production Name)	NOS3 (phospho Ser1177) Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB, ICC/IF, ELISA
种属反应性 (Reactivity)	Human, Mouse, Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Phosphorylated
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

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

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000, ICC/IF 1:200-1:1000, ELISA 1:10000-1:20000
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蛋白分子量 (Molecular Weight) 130-140kDa

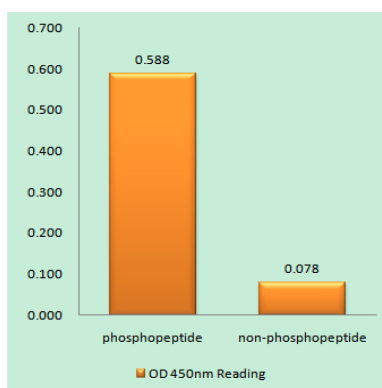
研究背景 (Background)

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,

研究领域 (Research Area)

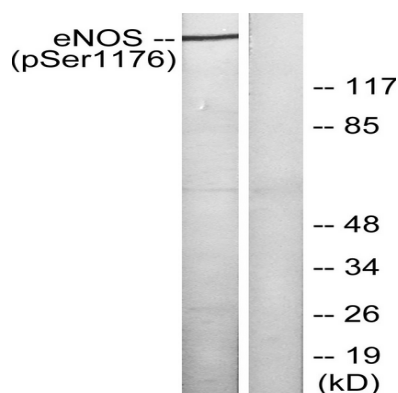
Regulates Angiogenesis; AMPK; PI3K/Akt; Protein_Acetylation

图片 (Image Data)

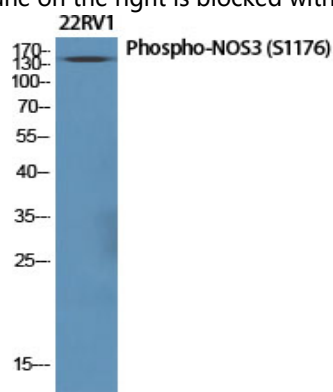


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using eNOS (Phospho-Ser1176) Antibody

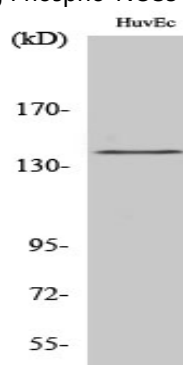
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Western blot analysis of lysates from HeLa cells treated with Insulin 0.01U/ml 15', using eNOS (Phospho-Ser1176) Antibody. The lane on the right is blocked with the phospho peptide.



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

注意事项 (Note)

For research use only .