

产品名称: NOS3 Rabbit Polyclonal Antibody
产品货号: APRab14804



产品概述 (Summary)

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

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
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. AA range:1145-1194

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:50-1:300,ICC/IF 1:50-1:300
蛋白分子量 (Molecular Weight)	130-140kDa

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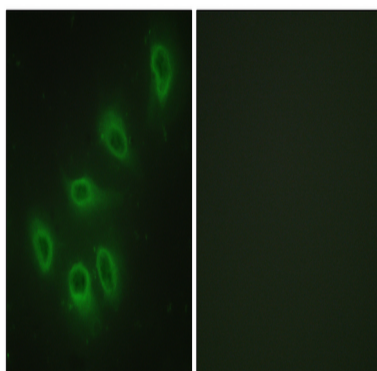
研究背景 (Background)

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: $\text{L-arginine} + n \text{ NADPH} + n \text{ H}^{(+)} + m \text{ O}(2) = \text{citrulline} + \text{nitric oxide} + n \text{ NADP}(+) +$, 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)

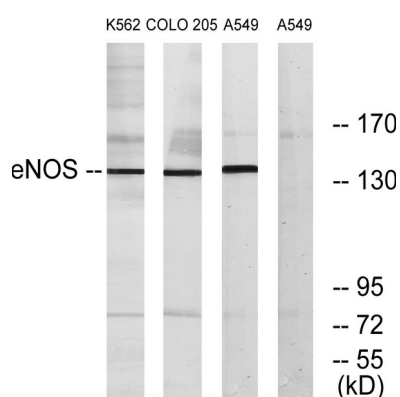
Regulates Angiogenesis; AMPK; PI3K/Akt; Protein_Acetylation

图片 (Image Data)

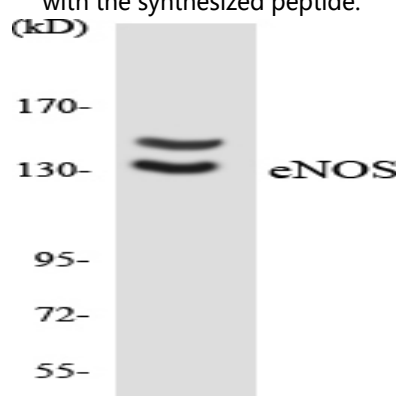


Immunofluorescence analysis of HeLa cells, using eNOS Antibody. The picture on the right is blocked with the synthesized peptide.

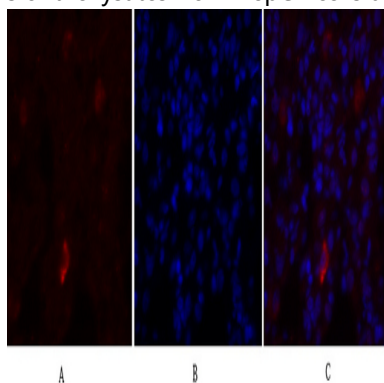
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Western blot analysis of lysates from A549, K562, and COLO205 cells, using eNOS Antibody. The lane on the right is blocked with the synthesized peptide.



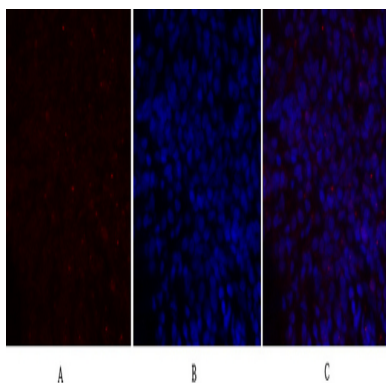
Western blot analysis of the lysates from HepG2 cells using eNOS antibody.



Immunofluorescence analysis of rat-lung tissue. 1, NOS3 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min.

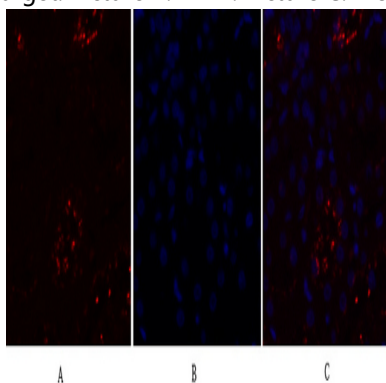
Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

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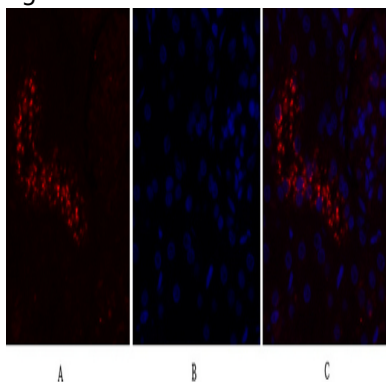
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Immunofluorescence analysis of rat-kidney tissue. 1, NOS3 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight) .
2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min.

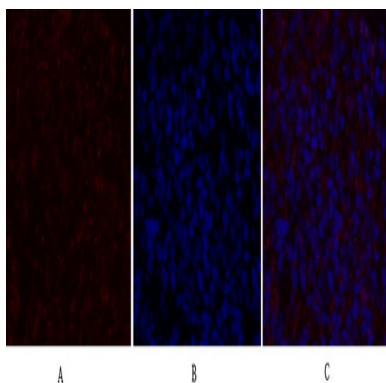
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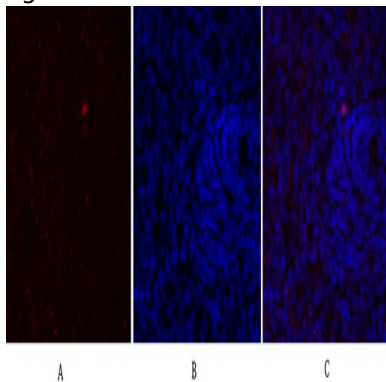
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Immunofluorescence analysis of rat-spleen tissue. 1, NOS3 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight) .
2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min.

Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of rat-spleen tissue. 1, NOS3 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight) .
2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min.

Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

注意事项 (Note)

For research use only .