

eNOS Polyclonal Antibody

Catalog No: YT3174

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: NOS3

Fields: >>Arginine biosynthesis;>>Arginine and proline metabolism;>>Metabolic

pathways;>>Calcium signaling pathway;>>cGMP-PKG signaling

pathway;>>HIF-1 signaling pathway;>>Sphingolipid signaling pathway;>>PI3K-

Akt signaling pathway;>>VEGF signaling pathway;>>Apelin signaling pathway;>>Platelet activation;>>Estrogen signaling pathway;>>Oxytocin signaling pathway;>>Relaxin signaling pathway;>>Insulin resistance;>>AGE-

RAGE signaling pathway in diabetic complications;>>Diabetic

cardiomyopathy;>>Lipid and atherosclerosis;>>Fluid shear stress and

atherosclerosis

Gene Name: NOS3

Protein Name: Nitric oxide synthase endothelial

P29474

P70313

Human Gene Id: 4846

Human Swiss Prot

No:

Mouse Gene Id: 18127

Mouse Swiss Prot

No:

Rat Gene Id: 24600

Rat Swiss Prot No: Q62600

Immunogen: The antiserum was produced against synthesized peptide derived from human

eNOS. AA range:1145-1194

Specificity: NOS3 Polyclonal Antibody detects endogenous levels of NOS3 protein.



Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500-2000, IF 1:50-300, IHC 1:50-300

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 130-140kD

Cell Pathway: Regulates Angiogenesis; AMPK; PI3K/Akt; Protein_Acetylation

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],

Function : 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

Subcellular Location:

Cell membrane. Membrane, caveola. Cytoplasm, cytoskeleton. Golgi apparatus. 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

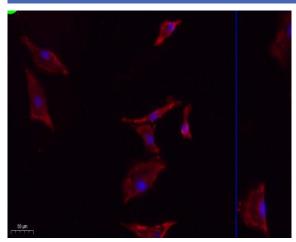
activity.

Expression : Platelets, placenta, liver and kidney.

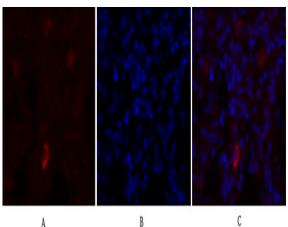
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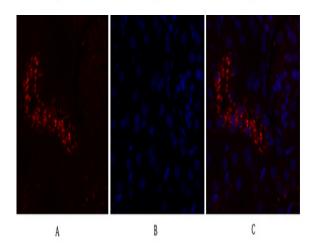
Products Images



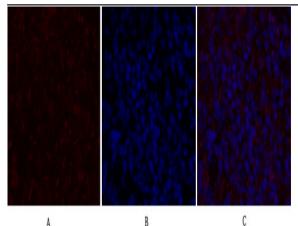
Immunofluorescence analysis of A549. 1,primary Antibody(red) was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, Picture B: DAPI(blue) 10min.



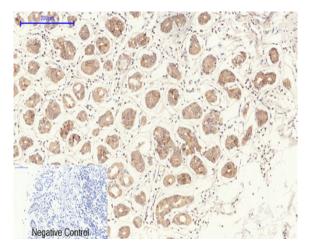
Immunofluorescence analysis of rat-lung tissue. 1,NOS3
Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2,
Cy3 labled Secondary antibody was diluted at 1:300(room
temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture
A:Target. Picture B: DAPI. Picture C: merge of A+B



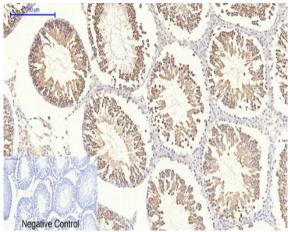
Immunofluorescence analysis of rat-kidney tissue. 1,NOS3 Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



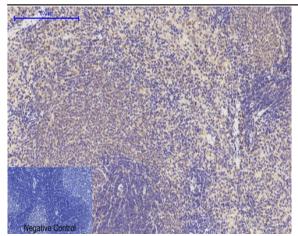
Immunofluorescence analysis of rat-spleen tissue. 1,NOS3 Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



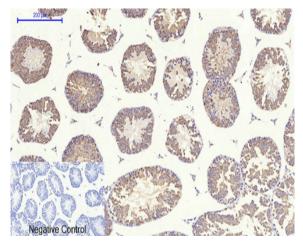
Immunohistochemical analysis of paraffin-embedded Humanstomach tissue. 1,NOS3 Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



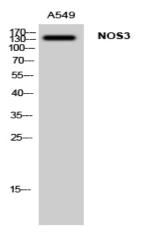
Immunohistochemical analysis of paraffin-embedded Rat-testis tissue. 1,NOS3 Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-spleen tissue. 1,NOS3 Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



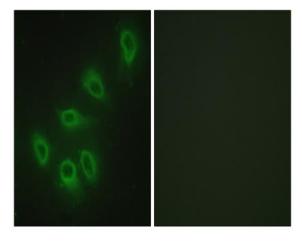
Immunohistochemical analysis of paraffin-embedded Mouse-testis tissue. 1,NOS3 Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



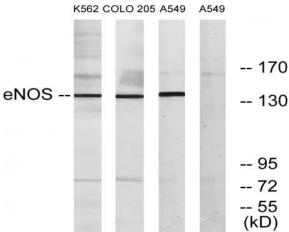
Western Blot analysis of A549 cells using NOS3 Polyclonal Antibody diluted at 1:1000

MOUSE-BRAIN	
138: 100 70	NOS3
55	
40	
35	
25	
15	

Western blot analysis of mouse-brain lysis using NOS3 antibody. Antibody was diluted at 1:1000



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



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.