

Anti-NOS3 Antibody



Description

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. Alternative splicing and the use of alternative promoters results in multiple transcript variants.

Model	STJ117269
Host	Rabbit
Reactivity	Human
Applications	IF, WB
Immunogen	A synthetic peptide of human NOS3
Gene ID	4846
Gene Symbol	NOS3
Dilution range	WB 1:500 - 1:2000 IF 1:50 - 1:200
Tissue Specificity	Platelets, placenta, liver and kidney
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Nitric oxide synthase endothelial
Molecular Weight	133.289 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:7876OMIM:163729Reactome:R-HSA-1222556
Alternative Names	Nitric oxide synthase endothelial
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
Cellular Localization	Cell membrane, Membrane, caveola, Cytoplasm, cytoskeleton, Golgi apparatus, which is favored by interaction with NOSIP and results in a reduced enzymatic activity
Post-translational Modifications	Phosphorylation by AMPK at Ser-1177 in the presence of Ca(2+)-calmodulin (CaM) activates activity, In absence of Ca(2+)-calmodulin, AMPK also phosphorylates Thr-495, resulting in inhibition of activity , Phosphorylation of Ser-114 by CDK5 reduces activity,

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