NOS3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NOS3, Polyclonal Antibody
Full Product Name	NOS3
Product Gene Name	anti-NOS3 antibody
Product Synonym Names	ECNOS; eNOS; NOS III
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human Predicted: Rat, Mouse
Form/Format	Already dissolved in sterile H2O with 1% BSA and 0.02% NaN3 and 50% Glycerol.
Purity/Purification	Purified By Antigen Affinity Column
OMIM	163729
3D Structure	ModBase 3D Structure for P29474
Immunogen	Recombinant fragment corresponding to 375-577aa of human NOS3.
Cellular Localization	Cell Membrane, Cytoplasm, Cytoskeleton, Golgi Apparatus, Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NOS3 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-NOS3 antibody	ELISA: 1:20,000-80,000 IHC: 1:100-500
Related Product Information for anti-NOS3 antibody	MBS8561022 is an antibody targeting NOS3. Reactive in Human Predicted: Rat, Mouse. Host: Rabbit. Homo sapiens nitric oxide synthase 3 (endothelial cell), mRNA
Product References and Citations for anti-NOS3 antibody	Saleh A, Stathopoulou MG, Dadé S. et al. Angiogenesis related genes NOS3, CD14, MMP3 and IL4R are associated to VEGF gene expression and circulating levels in healthy adults. BMC Med Genet. 16):90 (2015)
Other Notes	Small volumes of anti-NOS3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NOS3. It may not necessarily be applicable to this product.

NCBI GI #	231571356
NCBI GeneID	4846
UniProt Primary Accession #	P29474
UniProt Related Accession #	P29474
GenBank Nucleotide #	NM_000603.4

NCBI Official Full Name	nitric oxide synthase, endothelial isoform 4
NCBI Official Synonym Full Names	nitric oxide synthase 3
NCBI Official Symbol	NOS3
NCBI Official Synonym Symbols	eNOS; ECNOS
UniProt Protein Name	Nitric oxide synthase, endothelial
UniProt Synonym Protein Names	Constitutive NOS; cNOS; EC-NOS; Endothelial NOS; eNOS; NOS type III
Protein Family	Nitric oxide synthase
UniProt Gene Name	NOS3
UniProt Synonym Gene Names	cNOS; eNOS; NOSIII
UniProt Entry Name	NOS3_HUMAN
NCBI Protein Information	nitric oxide synthase, endothelial
NCBI Summary for NOS3	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. [provided by RefSeq, Oct 2016]
UniProt Comments for NOS3	eNOS: endothelial constitutive nitric oxide synthase. Synthesizes nitric oxide (NO) from arginine and oxygen, 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. Induced in humans by caloric restriction. Stimulated by calcium/calmodulin. Inhibited by NOSIP and NOSTRIN. Protein type: EC 1.14.13.39; Oxidoreductase; Amino Acid Metabolism - arginine and proline Chromosomal Location of Human Ortholog: 7q36 Cellular Component: Golgi membrane; cytoskeleton; cytoplasm; plasma membrane; caveola; nucleus; cytosol Molecular Function: calmodulin binding; actin monomer binding; protein binding; FAD binding; FMN binding; NADPH-hemoprotein reductase activity; nitric-oxide synthase activity; iron ion binding; heme binding; NADP binding; cadmium ion binding Biological Process: regulation of systemic arterial blood pressure by endothelin; negative regulation of potassium ion transport; negative regulation of muscle hyperplasia; positive regulation of vasodilation; nitric oxide metabolic process; negative regulation of cell proliferation; negative regulation of hydrolase activity; regulation of blood pressure; regulation of the force of heart contraction by chemical signal; lipopolysaccharide-mediated signaling pathway; angiogenesis; negative regulation of blood pressure; regulation of blood vessel size; nitric oxide biosynthetic process; mitochondrion organization and biogenesis; interaction with host; negative regulation of calcium ion transport; in utero embryonic development; positive regulation of guanylate cyclase activity; regulation of sodium ion transport; ovulation from ovarian follicle; positive regulation of angiogenesis; response to heat; endothelial cell migration; arginine catabolic process; blood vessel remodeling; regulation of nitric-oxide synthase activity; vascular endothelial growth factor receptor signaling pathway; blood coagulation; nitric oxide mediated signal transduction; lung development; smooth muscle hyperplasia Disease: Preeclampsia/eclampsia 1; Alzheimer Disease; Hypertension, Essential; Stroke, Ischemic
Research Articles on NOS3	**1.** Features of nitric oxide metabolism and risk of developing endothelial dysfunction in children with eNOS 4a/4b polymorphism under long-term entering cesium-137 to body have been presented.
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