NOS2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NOS2, Polyclonal Antibody
Full Product Name	NOS2 Antibody
Product Gene Name	anti-NOS2 antibody
Product Synonym Names	NOS; INOS; NOS2A; HEP-NOS
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Specificity	The antibody detects endogenous levels of total NOS2 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	131,117 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (26083792..26127555, complement). Location: 17q11.2-q12
OMIM	163730
3D Structure	ModBase 3D Structure for P35228
Immunogen	Fusion protein corresponding to residues near the N terminal of human nitric oxide synthase 2, inducible
Product Categories/Family for anti-NOS2 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NOS2 antibody	Immunohistochemistry (IHC)
Application Notes for anti-NOS2 antibody	IHC: 1:100-1:300
Related Product Information for anti-NOS2 antibody	Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. This gene encodes a nitric oxide synthase which is expressed in liver and is inducible by a combination of lipopolysaccharide and certain cytokines. Three related pseudogenes are located within the Smith-Magenis syndrome region on chromosome 17
Other Notes	Small volumes of anti-NOS2 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.
Searchable Terms for NOS2 purchase	MBS8589193 is an antibody targeting NOS2. Also known as NOS2 Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NOS2. It may not necessarily be applicable to this product.

NCBI GI #	24041029
NCBI GeneID	4843
NCBI Accession #	NP_000616.3
UniProt Primary Accession #	P35228
UniProt Secondary Accession #	O60757; O94994; Q16263; Q16692; Q4TTS5; Q9UD42; A1L3U5; B7ZLY2
UniProt Related Accession #	P35228
GenBank Nucleotide #	NM_000625.4
NCBI Official Full Name	nitric oxide synthase, inducible
NCBI Official Synonym Full Names	nitric oxide synthase 2, inducible
NCBI Official Symbol	NOS2
NCBI Official Synonym Symbols	NOS; INOS; NOS2A; HEP-NOS
UniProt Protein Name	Nitric oxide synthase, inducible
UniProt Synonym Protein Names	Hepatocyte NOS; HEP-NOS; Inducible NO synthase; Inducible NOS; iNOS; NOS type II; Peptidyl-cysteine S-nitrosylase NOS2
Protein Family	Nitric oxide synthase
UniProt Gene Name	NOS2
UniProt Synonym Gene Names	NOS2A; HEP-NOS; Inducible NOS; iNOS
UniProt Entry Name	NOS2_HUMAN
NCBI Protein Information	nitric oxide synthase, inducible; NOS type II; NOS, type II; inducible NOS; hepatocyte NOS; inducible NO synthase; nitric oxide synthase, macrophage; peptidyl-cysteine S-nitrosylase NOS2; nitric oxide synthase 2A (inducible, hepatocytes)
NCBI Summary for NOS2	Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. This gene encodes a nitric oxide synthase which is expressed in liver and is inducible by a combination of lipopolysaccharide and certain cytokines. Three related pseudogenes are located within the Smith-Magenis syndrome region on chromosome 17. [provided by RefSeq, Jul 2008]

UniProt Comments for NOS2	iNOS: Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. In macrophages, NO mediates tumoricidal and bactericidal actions. Also has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such COX2. Homodimer. Binds SLC9A3R1. By endotoxins and cytokines. Induced by IFNG/IFN-gamma acting synergistically with bacterial lipopolysaccharides (LPS), TNF or IL1B/interleukin-1 beta. Expressed in the liver, retina, bone cells and airway epithelial cells of the lung. Not expressed in the platelets. Regulated by calcium/calmodulin. Aspirin inhibits expression and function of this enzyme and effects may be exerted at the level of translational/post-translational modification and directly on the catalytic activity. Belongs to the NOS family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 1.14.13.39; Amino Acid Metabolism - arginine and proline; Oxidoreductase Chromosomal Location of Human Ortholog: 17q11.2 Cellular Component: cortical cytoskeleton; perinuclear region of cytoplasm; cytoplasm; peroxisome; intracellular; nucleus; cytosol Molecular Function: calmodulin binding; protein binding; protein homodimerization activity; FAD binding; NADPH-hemoprotein reductase activity; FMN binding; nitric-oxide synthase activity; iron ion binding; heme binding; NADP binding; receptor binding Biological Process: circadian rhythm; interaction with host; superoxide metabolic process; positive regulation of guanylate cyclase activity; positive regulation of killing of cells of another organism; defense response to Gram-negative bacterium; positive regulation of vasodilation; regulation of cell proliferation; regulation of cellular respiration; positive regulation of leukocyte mediated cytotoxicity; innate immune response in mucosa; response to bacterium; defense response to bacterium; peptidyl-cysteine S-nitrosylation; response to hypoxia; arginine catabolic process; negative regulation of blood pressure; blood coagulation; negative regulation of protein catabolic process; inflammatory response; nitric oxide biosynthetic process; regulation of insulin secretion; nitric oxide mediated signal transduction Disease: Hypertension, Essential; Malaria, Susceptibility To
Research Articles on NOS2	**1.** We tested the hypothesis that iNOS is deregulated in NPM-ALK(+) T-cell lymphoma and promotes the survival of this lymphoma.
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