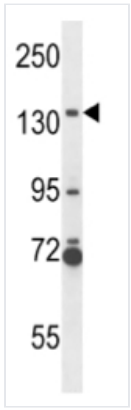
NOS2A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NOS2A, Polyclonal Antibody
Full Product Name	NOS2A, NT (NOS2, NOS2A, Nitric oxide synthase, inducible, Hepatocyte NOS, Inducible NO synthase, NOS type II, Peptidyl-cysteine S-nitrosylase NOS2) (MaxLight 550)
Product Gene Name	anti-NOS2A antibody
Product Synonym Gene Name	NOS2
Product Synonym Names	NOS2; NOS2A; Nitric oxide synthase; inducible; Hepatocyte NOS; Inducible NO synthase; NOS type II; Peptidyl-cysteine S-nitrosylase NOS2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human NOS2A.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
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	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 108-138 in the N-terminal region of human NOS2A, UniProt Accession #NP_000616.3; P35228.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-NOS2A antibody	Antibodies; Nitric Oxide
Applications Tested/Suitable for anti-NOS2A antibody	Western Blot (WB), FLISA
Application Notes for anti-NOS2A antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NOS2A 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.

Product References and Citations for anti-NOS2A antibody	1. Ryk, C., et al. J. Urol. 184(5):2150-2157(2010). 2. Planche, T., et al. Am. J. Physiol. Regul. Integr. Comp. Physiol. 299 (5), R1248-R1253 (2010). 3. Feng, C., et al. FEBS Lett. 584(20):4335-4338(2010). 4. Mokrzycka, M., et al. Folia Histochem. Cytobiol. 48(2):191-196(2010). 5. Tupitsyna, T.V., et al. Mol. Gen. Mikrobiol. Virusol. 3, 3-7 (2010).
Other Notes	Small volumes of anti-NOS2A 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 NOS2A purchase	MBS6326024 is an antibody targeting NOS2A. Also known as NOS2A, NT (NOS2, NOS2A, Nitric oxide synthase, inducible, Hepatocyte NOS, Inducible NO synthase, NOS type II, Peptidyl-cysteine S-nitrosylase NOS2) (MaxLight 550). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NOS2A antibody
Western Blot analysis in NCI-H292 cell line lysates (35ug/lane) usingMBS6000915. This demonstrates that MBS6000915 detected the NOS2A protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NOS2A. 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
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)
UniProt Comments for NOS2A	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 NOS2A	**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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