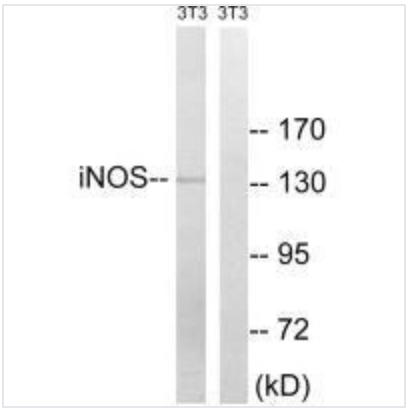
NOS2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NOS2, Polyclonal Antibody
Full Product Name	NOS2 (Ab-151) Antibody
Product Gene Name	anti-NOS2 antibody
Product Synonym Names	EC 1.14.13.39; HEP-NOS; hepatocyte NOS; inducible NOS; nitric oxide synthase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid; Rabbit IgG In Phosphate Buffered Saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
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	Synthesized non-phosphopeptide derived from human iNOS around the phosphorylation site of tyrosine 151 (Q-Y-Y(p)-G-S).
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-NOS2 antibody	Neuroscience
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NOS2 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-NOS2 antibody	WB: 1:500-1:3000
Related Product Information for anti-NOS2 antibody	MBS7130632 is an antibody targeting NOS2. Also known as NOS2 (Ab-151) Antibody. Reactive in Human, Mouse. Host: Rabbit.
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.



Western Blot (WB) of anti-NOS2 antibody
Western blot analysis of extracts from 3T3 cells, using iNOS (Ab-151) antibody.

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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