

Datasheet for ABIN967964

anti-NOS2 antibody (AA 961-1144)**4** Images**5** Publications[Go to Product page](#)

Overview

Quantity:	150 µg
Target:	NOS2
Binding Specificity:	AA 961-1144
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NOS2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Immunogen:	Mouse iNOS aa. 961-1144
Clone:	54-iNOS
Isotype:	IgG2a kappa
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Source of all serum proteins is from USDA inspected abattoirs located in the United States. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Please refer to us for technical protocols.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target:	NOS2
Alternative Name:	iNOS/NOS Type II (NOS2 Products)
Background:	Nitric oxide synthase (NOS), a cell-type specific enzyme, catalyzes the synthesis of nitric oxide (NO). NO is a short-lived radical that transmits cellular signals involved in vasorelaxation, neurotransmission, and cytotoxicity. In macrophages and other cell types, NOS (iNOS or macNOS) activity increases following exposure to cytokines (IFN-gamma, TNF-alpha, and IL-1) and microbial products (lipopolysaccharide (LPS)). iNOS is activated independently of Ca²⁺/calmodulin and its level of expression is tightly controlled by several transcription factors, including NFkappaB. Data indicates that TGF-beta affects translation of iNOS mRNA and decreases iNOS protein stability. Normally undetectable in brain tissue, iNOS mRNA has been observed in CNS tissues of animals under experimental pathologic conditions. iNOS and nNOS share 51% amino acid homology with the greatest degree of divergence in the calmodulin binding domain. This antibody has been reported to cross-react with nNOS and eNOS. Synonyms: NOS Type II
Molecular Weight:	130 kDa
Pathways:	Retinoic Acid Receptor Signaling Pathway , Cellular Response to Molecule of Bacterial Origin , Inositol Metabolic Process , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process

Application Details

Comment:	Related Products: ABIN968550, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	-20 °C
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Storage Comment:	Store undiluted at -20°C.
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Publications

Product cited in:

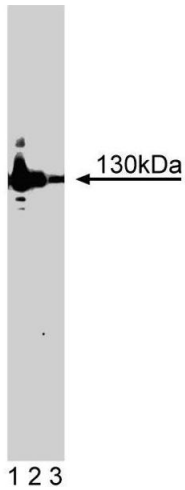
Zadeh, Kolb, Geromin, DAnna, Boulmerka, Marconi, Dugas, Marsac, DAlessio: "Regulation of ICAM-1/CD54 expression on human endothelial cells by hydrogen peroxide involves inducible NO synthase." in: **Journal of leukocyte biology**, Vol. 67, Issue 3, pp. 327-34, (2000) ([PubMed](#)).

Resta, ODonaghy, Earley, Chicoine, Walker: "Unaltered vasoconstrictor responsiveness after iNOS inhibition in lungs from chronically hypoxic rats." in: **The American journal of physiology**, Vol. 276, Issue 1 Pt 1, pp. L122-30, (1999) ([PubMed](#)).

Zhao, Dugas, Mathiot, Delmer, Dugas, Sigaux, Kolb: "B-cell chronic lymphocytic leukemia cells express a functional inducible nitric oxide synthase displaying anti-apoptotic activity." in: **Blood**, Vol. 92, Issue 3, pp. 1031-43, (1998) ([PubMed](#)).

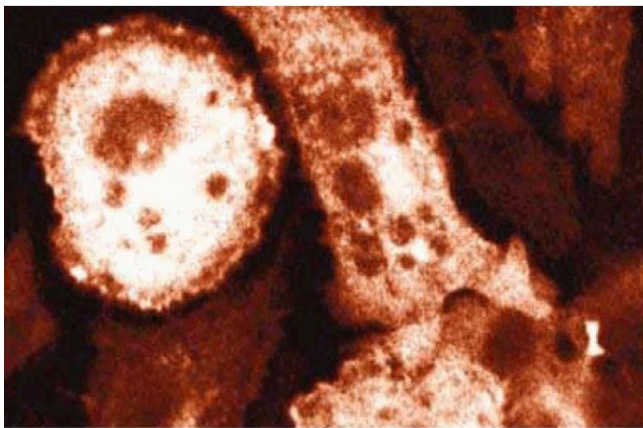
Vodovotz, Bogdan, Paik, Xie, Nathan: "Mechanisms of suppression of macrophage nitric oxide release by transforming growth factor beta." in: **The Journal of experimental medicine**, Vol. 178, Issue 2, pp. 605-13, (1993) ([PubMed](#)).

Xie, Cho, Calaycay, Mumford, Swiderek, Lee, Ding, Troso, Nathan: "Cloning and characterization of inducible nitric oxide synthase from mouse macrophages." in: **Science (New York, N.Y.)**, Vol. 256, Issue 5054, pp. 225-8, (1992) ([PubMed](#)).



Western Blotting

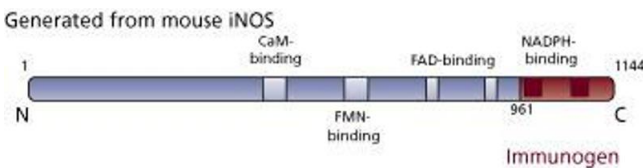
Image 1. Western blot analysis of iNOS/NOS Type II on a lysate from mouse macrophages (RAW 264.7) stimulated with 10 ng/mL IFNgamma and 1 myg/mL LPS for 12 hours. Lane 1: 1:2000, lane 2: 1:4000, lane 3: 1:8000 dilution of the mouse anti-iNOS/NOS Type II antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of mouse macrophages stimulated with 10 ng/mL IFNgamma and 1 µg/mL LPS.

Image 3.



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN967964.