bs-0162R **[Primary Antibody]**

NOS2 | iNOS Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4843 **SWISS:** P35228

Target: NOS2 | iNOS

Immunogen: KLH conjugated synthetic peptide derived from human NOS-2: 101-200/1153.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Nitric oxide (NO) is an inorganic, gaseous free radical that carries a variety of messages between cells. Vasorelaxation, neurotransmission and cytotoxicity can all be potentiated through cellular response to NO. NO production is mediated by members of the nitric oxide synthase (NOS) family. NOS catalyzes the oxidization of L-arginine to produce L-citrulline and NO. Two constitutive isoforms, brain or neuronal NOS (b or nNOS, type I) & endothelial cell NOS (eNOS, type III), and one inducible isoform (iNOS, type II), have been cloned. All NOS isoforms contain calmodulin, nicotinamide adenine dinucleotide phosphate (NADPH), flavin adenine dinucleotide (FAD), and flavin mononucleotide (FMN) binding domains. Nitric oxide synthase is expressed in liver, macrophages, hepatocytes, synoviocytes, stimulated glial cells and smooth muscle cells. Cytokines such as interferon-gamma (IFN), tumor necrosis factor (TNF), interleukin-1 and -2, and lipopolysaccarides (LPS) cause an increase in iNOS mRNA, protein, and activity levels. Protein kinase C-stimulating agents exhibit the same effect on iNOS activity. After cytokine induction, iNOS exhibits a delayed activity response which is then followed by a significant increase in NO production over a long period of time. Human iNOS is regulated by calcium/calmodulin (in contrast with mouse NOS2).

Applications: **WB** (1:1000-5000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ELISA (1:5000-10000)

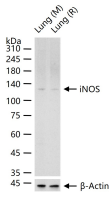
Reactivity: Human, Mouse, Rat

Predicted MW.: 130 kDa

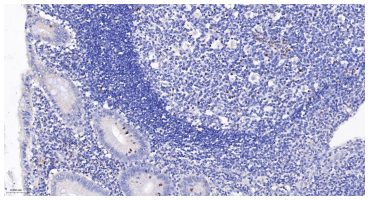
Observed MW.: 130 kDa

Subcellular Location: Cytoplasm

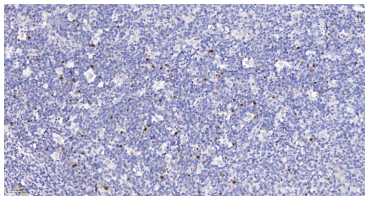
VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with iNOS polyclonal antibody, unconjugated (bs-0162R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Pyogenic appendicitis; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with iNOS Polyclonal Antibody, Unconjugated (bs-0162R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Chronic tonsillitis; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with iNOS Polyclonal Antibody, Unconjugated (bs-0162R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

SELECTED CITATIONS

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=32.086]** Congyang Mao. et al. Realising highly efficient sonodynamic bactericidal capability through the phonon–electron coupling effect using two-dimensional catalytic planar defects. ADV MATER. 2022 Dec;:2208681 IF ;Mouse. 36524686
- **[IF=20.3]** Xingtong Wang. et al. Glucose/ROS-responsive and redox-gated adaptive hydrogel dressing for accelerating diabetic wound repair via synergistic cGAS/STING pathway inhibition and oxidative stress alleviation. BIOACT MATER. 2026 Aug;62:363-378 IF ;Mouse. 41884517
- **[IF=19]** Xuan Yao. et al. Dual Dynamic Crosslinked Hydrogel Patch Embodied with Anti-Bacterial and Macrophage Regulatory Properties for Synergistic Prevention of Peritendinous Adhesion. ADV FUNCT MATER. 2024 May;:2400660 IF ;Rat. 10.1002/adfm.202400660
- **[IF=18.5]** Yizhou Zhu. et al. Photocurrent-Directed Immunoregulation Accelerates Osseointegration through Activating Calcium Influx in Macrophages. ADV FUNCT MATER. 2024 Oct;:2406095 IHC ;Rat. 10.1002/adfm.202406095
- **[IF=18]** Li, Danmei. et al. Restoring tendon microenvironment in tendinopathy: Macrophage modulation and tendon regeneration with injectable tendon hydrogel and tendon-derived stem cells exosomes. BIOACT MATER. 2025 Jan22;47:152–169 IHC ;rabbit. 39906648

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