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

iNOS Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4843 **SWISS:** P35228

Target: 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).

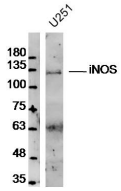
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:100-500)
ELISA (1:5000-10000)

Reactivity: Human, Mouse, Rat

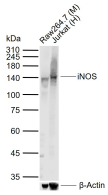
Predicted MW.: 130 kDa

Subcellular Location: Cytoplasm

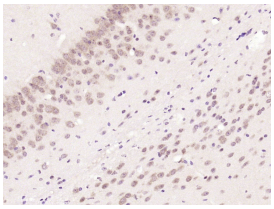
VALIDATION IMAGES



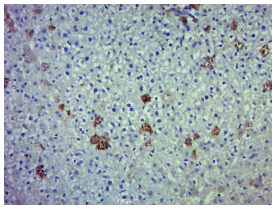
Sample:U251 Cell Lysate at 40 ug Primary: Anti-iNOS(bs-0162R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution Predicted band size: 130kD Observed band size: 130kD



Sample: Lane 1: Mouse Raw264.7 tissue lysates Lane 2: Human Jurkat cell lysates Primary: Anti-iNOS (bs-0162R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 130 kDa Observed band size: 140 kDa



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (inos) Polyclonal Antibody, Unconjugated (bs-0162R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (iNOS) Polyclonal Antibody, Unconjugated (bs-0162R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

SELECTED CITATIONS

- **[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=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=16.874]** Bingcheng Yi. et al. Step-wise CAG@PLys@PDA-Cu2+ modification on micropatterned nanofibers for programmed endothelial healing. BIOACT MATER. 2022 Jul;: IF ;Human. 10.1016/j.bioactmat.2022.07.010
- **[IF=15.1]** Jinhong Cai. et al. Multifunctional PDA/ZIF8 based hydrogel dressing modulates the microenvironment to accelerate chronic wound healing by ROS scavenging and macrophage polarization. CHEM ENG J. 2024 Mar;:150632 IF ;Mouse. 10.1016/j.cej.2024.150632
- **[IF=15.1]** Jiale Chen. et al. H2S-releasing versatile hydrogel dressing with potent antimicrobial, anti-inflammatory, epithelialization and angiogenic capabilities for diabetic wound healing. CHEM ENG J. 2023 Aug;469:143985 IF,ICC ;Mouse. 10.1016/j.cej.2023.143985