

bs-20601R**[Primary Antibody]****Bioss**
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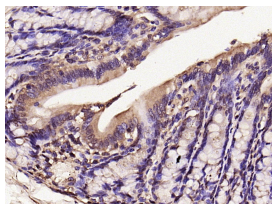
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iNos/Nos-2 Rabbit pAb**— DATASHEET —**

Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:400-800)
Clonality: Polyclonal		IHC-F (1:400-800)
GeneID: 4843	SWISS: P35228	IF (1:100-500)
Target: iNos/Nos-2		Reactivity: Rat (predicted: Mouse, Rabbit)
Immunogen: KLH conjugated synthetic peptide derived from human iNos/Nos-2: 1051-1153/1153.		
Purification: affinity purified by Protein A		Predicted MW.: 130 kDa
Concentration: 1mg/ml		Subcellular Location: Cytoplasm
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 lipopolysaccharides (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).		

— VALIDATION IMAGES —

Paraformaldehyde-fixed, paraffin embedded (rat colon); 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-20601R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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

— SELECTED CITATIONS —

- **[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=3.9]** Josephine Y. Fang. et al. Viscoelastic Hydrogel Modulates Phenotype of Macrophage-Derived Multinucleated Cells and Macrophage Differentiation in Foreign Body Reactions. J BIOMED MATER RES A. 2024 Oct;; IF,IHC ;Rat,Mouse. 39429027
- **[IF=3.112]** Hasan Tarik Atmaca. et al. Determination of macrophage types by immunohistochemical methods in the local immune response to liver hydatid cysts in sheep. Acta Trop. 2022 May;229:106364 IHC ;Sheep. 35149039