bs-10197R **[Primary Antibody]**

nNOS Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4842 **SWISS:** P29475

Target: nNOS

Immunogen: KLH conjugated synthetic peptide derived from human nNos/NOS-1: 601-700/1434.

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: The protein encoded by this gene belongs to the family of nitric oxide synthases, which synthesize nitric oxide from L-arginine. Nitric oxide is a reactive free radical, which acts as a biologic mediator in several processes, including neurotransmission, and antimicrobial and antitumoral activities. In the brain and peripheral nervous system, nitric oxide displays many properties of a neurotransmitter, and has been implicated in neurotoxicity associated with stroke and neurodegenerative diseases, neural regulation of smooth muscle, including peristalsis, and penile erection. This protein is ubiquitously expressed, with high level of expression in skeletal muscle. Multiple transcript variants that differ in the 5' UTR have been described for this gene but the full-length nature of these transcripts is not known. Additionally, alternatively spliced transcript variants encoding different isoforms (some testis-specific) have been found for this gene.[provided by RefSeq, Feb 2011].

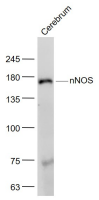
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse (predicted: Rat, Pig, Sheep, Cow, Chicken, Dog)

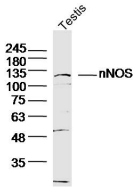
Predicted MW.: 130 kDa

Subcellular Location: Cell membrane

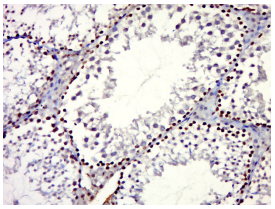
VALIDATION IMAGES



Sample: Cerebrum (Mouse) Lysate at 40 ug Primary: Anti- nNOS (bs-10197R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 130 kD Observed band size: 150 kD



Sample: Testis (Mouse) Lysate at 40 ug Primary: Anti-nNOS (bs-10197R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 130 kD Observed band size: 130 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse testis); 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 (nNOS) Polyclonal Antibody, Unconjugated (bs-10197R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

SELECTED CITATIONS

- **[IF=52.7]** She Han. et al. Arginase 1 drives mitochondrial cristae remodeling and PANoptosis in ischemia/hypoxia-induced vascular dysfunction. SIGNAL TRANSDUCT TAR. 2025 May;10(1):1-20 WB ;Rat. 40425583
- **[IF=12.35]** Baruteau et al. Argininosuccinic aciduria fosters neuronal nitrosative stress reversed by Asl gene transfer.

(2018) Nat.Commun. 9:3505 IHC ;Mouse. 30158522

- **[IF=5]** Tuling Li. et al. Suppressive effect of nitric oxide synthase (NOS) inhibitor L-NMMA acetate on choroidal fibrosis in experimental myopic guinea pigs through the nitric oxide signaling pathway. EUR J PHARMACOL. 2023 Dec;960:176111 WB,IHC ;Guinea pig. 37863413
- **[IF=4.492]** Rocha-Ferreira et al. Immediate Remote Ischemic Postconditioning Reduces Brain Nitrotyrosine Formation in a Piglet Asphyxia Model. (2016) Oxid.Med.Cell.Longe. 2016:5763743 IHC ;Pig. 27379176
- **[IF=4]** JIA Kexin. et al.Inonotus obliquus (Chaga) against HFD/STZ-induced glucolipid metabolism disorders and abnormal renal functions by regulating NOS-cGMP-PDE5 signaling pathway.CHINESE JOURNAL OF NATURAL MEDICINES.2024 Jul;22(7):580-581. Western blot ;Rat. 39059827