
nNOS Rabbit pAb

Catalog Number: bs-10197R

Target Protein: nNOS

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

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

Entrez Gene: 4842

Swiss Prot: P29475

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

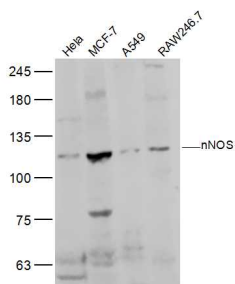
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

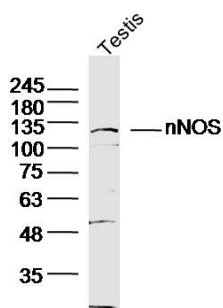
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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].

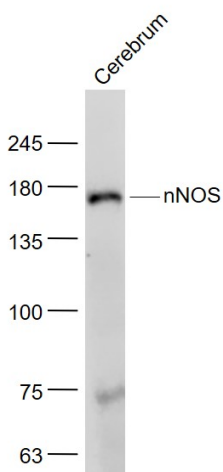
VALIDATION IMAGES



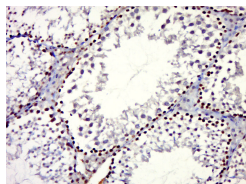
Sample: HeLa(Human) Cell Lysate at 30 ug MCF-7(Human) Cell Lysate at 30 ug A549(Human) Cell Lysate at 30 ug RAW246.7 (Mouse) Cell Lysate at 30 ug Primary: Anti-nNOS (bs-10197R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 130 kD Observed band size: 130 kD



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



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



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.

PRODUCT SPECIFIC PUBLICATIONS

[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=0.18] Fu, G., et al. "Penile erectile dysfunction after brachial plexus root avulsion injury in rats." Neural Regeneration Research 9.20 (2014): 1839. IHC ; ="Rat" . 25422647