

Anti-nNOS Polyclonal Antibody

Product Details

Ig Type: IgG
Reactivity: Mouse(predicted:Human,Rat,Chicken,Dog,Pig,Cow,Sheep)
Molecular Weight: Theoretical: 130 kDa. Actual: 150 kDa.
Purification: Protein A purified

Applications

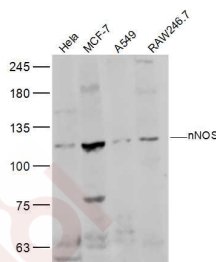
1. Sample:
Hela (Human) Cell Lysate at 30 µg
MCF-7 (Human) Cell Lysate at 30 µg
A549 (Human) Cell Lysate at 30 µg
RAW246.7 (Mouse) Cell Lysate at 30 µg
Primary: Anti-nNOS (TMAB-01250) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 130 kDa
Observed band size: 130 kDa

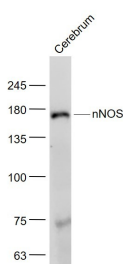
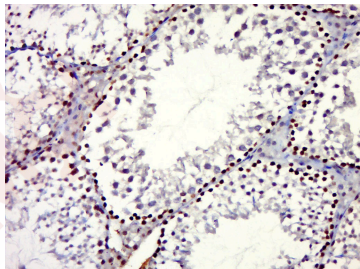
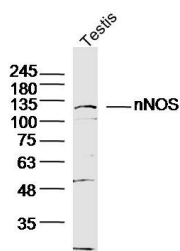
2. Sample:
Testis (Mouse) Lysate at 40 µg
Primary: Anti-nNOS (TMAB-01250) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 130 kDa
Observed band size: 130 kDa

Verified Activity:

3. Paraformaldehyde-fixed, paraffin embedded (Mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (nNOS) Polyclonal Antibody, Unconjugated (TMAB-01250) at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.

4. Sample:
Cerebrum (Mouse) Lysate at 40 µg
Primary: Anti-nNOS (TMAB-01250) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 130 kDa
Observed band size: 150 kDa





Application: IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human nNos/NOS-1

Antigen Species: Human

Gene ID: 4842

Uniprot ID: P29475

Synonyms: Peptidyl-cysteine S-nitrosylase NOS1;NOS type I;EC:1.14.13.39;NOS1;nNOS);Neuronal NOS(N-NOS;bNOS;Constitutive NOS;Nitric oxide synthase, brain;N-NOS;neuronal Nitric Oxide Synthase;NC-NOS

Biology Area: Germ cell markers,Regulation,Embryonic Germ Cells

Research 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

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not known. Additionally, alternatively spliced transcript variants encoding different isoforms (some testis-specific) have been found for this gene.[provided by RefSeq, Feb 2011].

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