

### nNOS(S1417) Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22421a

## **Specification**

#### nNOS(S1417) Antibody - Product Information

Application WB,E
Primary Accession P29475

Reactivity Human, Mouse

Host Rabbit
Clonality polyclonal
Isotype Rabbit Ig
Calculated MW 160970

# nNOS(S1417) Antibody - Additional Information

#### **Gene ID 4842**

#### **Other Names**

Nitric oxide synthase 1 {ECO:0000312|HGNC:HGNC:7872}, 1.14.13.39, Constitutive NOS, NC-NOS, NOS type I, Neuronal NOS, N-NOS, nNOS, Nitric oxide synthase, brain, bNOS, Peptidyl-cysteine S-nitrosylase NOS1, NOS1 (<a

href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=7872" target=" blank">HGNC:7872</a>)

# Target/Specificity

This nNOS(S1417) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between amino acids from the human region of human nNOS(S1417).

#### **Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

## **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### **Precautions**

nNOS(S1417) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## nNOS(S1417) Antibody - Protein Information

Name NOS1 (HGNC:7872)



**Function** Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. In the brain and peripheral nervous system, NO displays many properties of a neurotransmitter. Probably has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such SRR.

#### **Cellular Location**

Cell membrane, sarcolemma {ECO:0000250|UniProtKB:Q9Z0J4}; Peripheral membrane protein. Cell projection, dendritic spine {ECO:0000250|UniProtKB:P29476}. Note=In skeletal muscle, it is localized beneath the sarcolemma of fast-twitch muscle fiber by associating with the dystrophin glycoprotein complex (By similarity) In neurons, enriched in dendritic spines (By similarity) {ECO:0000250|UniProtKB:P29476, ECO:0000250|UniProtKB:Q9Z0J4}

#### **Tissue Location**

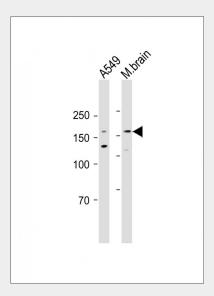
Isoform 1 is ubiquitously expressed: detected in skeletal muscle and brain, also in testis, lung and kidney, and at low levels in heart, adrenal gland and retina. Not detected in the platelets. Isoform 3 is expressed only in testis. Isoform 4 is detected in testis, skeletal muscle, lung, and kidney, at low levels in the brain, but not in the heart and adrenal gland

## nNOS(S1417) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

#### nNOS(S1417) Antibody - Images



All lanes: Anti-nNOS(S1417) Antibody at 1:1000 dilution Lane 1: A549 whole cell lysate Lane 2: Mouse brain lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 161 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



Tel: 858.875.1900 Fax: 858.875.1999

# nNOS(S1417) Antibody - Background

Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. In the brain and peripheral nervous system, NO displays many properties of a neurotransmitter. Probably has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such SRR.

# nNOS(S1417) Antibody - References

Hall A.V., et al.J. Biol. Chem. 269:33082-33090(1994). Fujisawa H., et al.J. Neurochem. 63:140-145(1994). Nakane M., et al. FEBS Lett. 316:175-180(1993). Park C.-S., et al. Cell. Mol. Neurobiol. 16:499-515(1996). Wang Y., et al.J. Biol. Chem. 272:11392-11401(1997).