

**nNOS Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9763c****Specification**

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**nNOS Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P29475](#)**nNOS Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 4842**Other Names**

Nitric oxide synthase, brain, Constitutive NOS, NC-NOS, NOS type I, Neuronal NOS, N-NOS, nNOS, Peptidyl-cysteine S-nitrosylase NOS1, bNOS, NOS1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**nNOS Antibody (Center) Blocking Peptide - 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 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **nNOS Antibody (Center) Blocking Peptide - Images**

## **nNOS Antibody (Center) Blocking Peptide - Background**

Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. Nitric oxide is synthesized from L-arginine by nitric oxide synthases. This gene encodes a nitric oxide synthase which is highly expressed in skeletal muscle.

## **nNOS Antibody (Center) Blocking Peptide - References**

Laas, K., et al. Psychopharmacology (Berl.) 209(3):255-261(2010) Darrah, R., et al. Physiol. Genomics 41(1):71-77(2010) Retz, W., et al. J Neural Transm 117(3):321-324(2010) Guan, Z.W., et al. J. Biol. Chem. 285(5):3064-3075(2010) Okumura, T., et al. Neuropsychobiology 61(2):57-63(2010) Song, T., et al. FEBS Lett. 570 (1-3), 133-137 (2004) Watanabe, Y., et al. Biochem. J. 372 (PT 2), 465-471 (2003) Chen, Z.P., et al. Am. J. Physiol. Endocrinol. Metab. 279 (5), E1202-E1206 (2000)