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# NOS1 Antibody (Center) Blocking peptide
**Synthetic peptide**
**Catalog # BP9763d**

## Specification

### NOS1 Antibody (Center) Blocking peptide - Product Information

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|---|---|
| Primary Accession | P29475 |
| Other Accession | NP_000611.1 |

### NOS1 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.

### NOS1 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

**NOS1 Antibody (Center) Blocking peptide - Protocols**

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

- Blocking Peptides

**NOS1 Antibody (Center) Blocking peptide - Images**

**NOS1 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.

**NOS1 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)