

**NOS3 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6963a****Specification**

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**NOS3 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P29474](#)**NOS3 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 4846**Other Names**

Nitric oxide synthase, endothelial, Constitutive NOS, cNOS, EC-NOS, Endothelial NOS, eNOS, NOS type III, NOSIII, NOS3

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6963a](/products/AP6963a) was selected from the N-term region of human NOS3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**NOS3 Antibody (N-term) Blocking Peptide - Protein Information****Name** NOS3 ([HGNC:7876](#))**Function**

Produces nitric oxide (NO) which is implicated in vascular smooth muscle relaxation through a cGMP-mediated signal transduction pathway (PubMed: [1378832](http://www.uniprot.org/citations/1378832)). NO mediates vascular endothelial growth factor (VEGF)-induced angiogenesis in coronary vessels and promotes blood clotting through the activation of platelets.

**Cellular Location**

Cell membrane. Membrane, caveola. Cytoplasm, cytoskeleton. Golgi apparatus. Note=Specifically associates with actin cytoskeleton in the G2 phase of the cell cycle; which is favored by interaction with NOSIP and results in a reduced enzymatic activity

**Tissue Location**

Platelets, placenta, liver and kidney.

**NOS3 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**NOS3 Antibody (N-term) Blocking Peptide - Images****NOS3 Antibody (N-term) 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.

**NOS3 Antibody (N-term) Blocking Peptide - References**

Rikova,K., et.al., Cell 131 (6), 1190-1203 (2007)