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NOS3 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP6963a

Specification

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 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). 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)