

**NOS3 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6963a**

### Specification

#### NOS3 Antibody (N-term) - Product Information

Application	WB, IHC-P, IF, FC,E
Primary Accession	<a href="#">P29474</a>
Other Accession	<a href="#">Q28969</a> , <a href="#">P29473</a> , <a href="#">P79209</a>
Reactivity	Human
Predicted	Bovine, Pig, Sheep
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	48-75

#### NOS3 Antibody (N-term) - 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

This NOS3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 48-75 amino acids from the N-terminal region of human NOS3.

##### Dilution

WB~~1:1000  
IHC-P~~1:10~50  
IF~~1:10~50  
FC~~1:10~50  
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

NOS3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

#### NOS3 Antibody (N-term) - 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

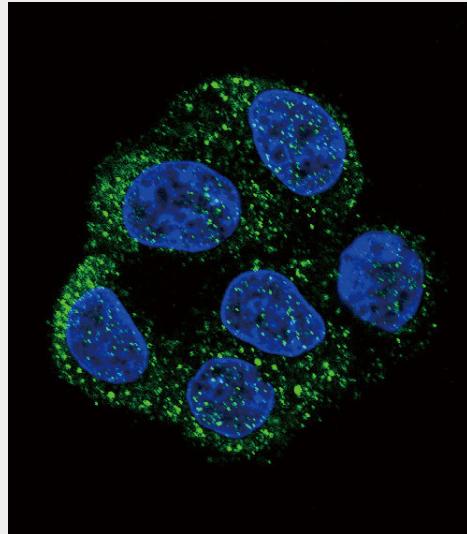
**Tissue Location**

Platelets, placenta, liver and kidney.

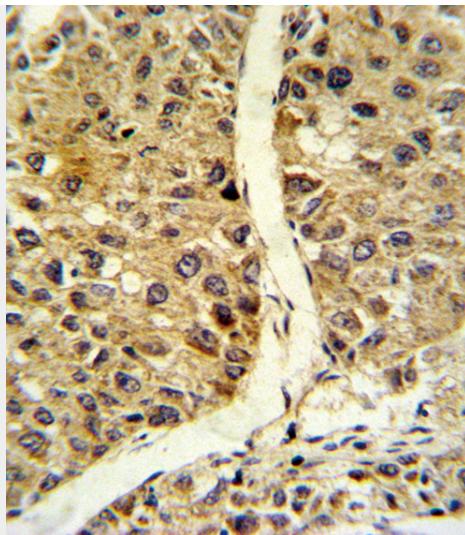
**NOS3 Antibody (N-term) - Protocols**

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

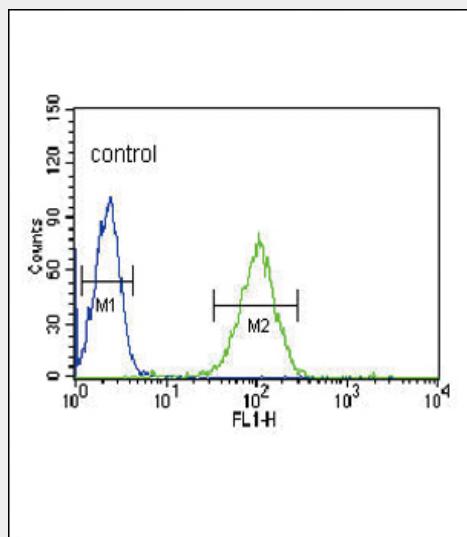
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**NOS3 Antibody (N-term) - Images**

Confocal immunofluorescent analysis of NOS3 Antibody (N-term)(Cat#AP6963a) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with NOS3 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



NOS3 Antibody (N-term) (Cat. #AP6963a) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **NOS3 Antibody (N-term) - 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) - References**

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

#### **NOS3 Antibody (N-term) - Citations**

- [Oxidative stress and inhibition of nitric oxide generation underlie methotrexate-induced senescence in human colon cancer cells.](#)

