

**eNos Antibody (S1177)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP11828a**

**Specification**

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**eNos Antibody (S1177) - Product Information**

Application	IF, WB, FC,E
Primary Accession	<a href="#">P29474</a>
Other Accession	<a href="#">Q62600</a> , <a href="#">Q28969</a> , <a href="#">P70313</a> , <a href="#">P29473</a> , <a href="#">NP_001153582.1</a> , <a href="#">NP_000594.2</a> , <a href="#">NP_001153581.1</a> , <a href="#">P79209</a>
Reactivity	Human
Predicted	Bovine, Mouse, Pig, Rat, Sheep
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	1156-1183

**eNos Antibody (S1177) - 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 eNos antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1156-1183 amino acids from human eNos.

**Dilution**

IF~~1:10~50  
WB~~1:1000  
FC~~1:10~50

**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**

eNos Antibody (S1177) is for research use only and not for use in diagnostic or therapeutic procedures.

**eNos Antibody (S1177) - 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**

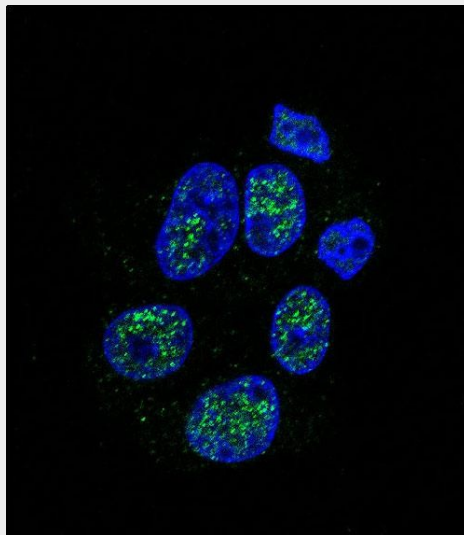
Platelets, placenta, liver and kidney.

**eNos Antibody (S1177) - Protocols**

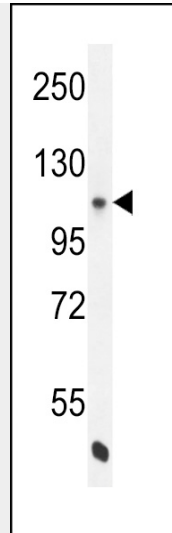
Provided below are standard protocols that you may find useful for product applications.

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

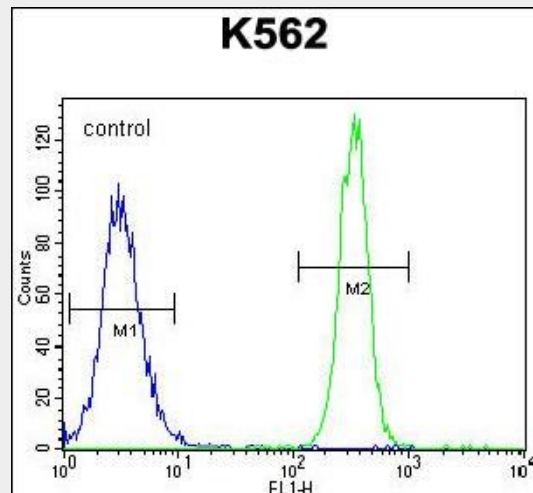
**eNos Antibody (S1177) - Images**



Confocal immunofluorescent analysis of eNos Antibody (S1177)(Cat#AP11828a) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).



eNos Antibody (S1177) (Cat. #AP11828a) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the eNos antibody detected the eNos protein (arrow).



eNos Antibody (S1177) (Cat. #AP11828a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### eNos Antibody (S1177) - 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. Variations in this gene are associated with susceptibility to coronary spasm. Multiple transcript variants encoding different isoforms have been found for this gene.

### eNos Antibody (S1177) - References

Yanamandra, K., et al. *Ophthalmic Genet.* 31(4):173-177(2010)  
 Bambha, K., et al. *Mayo Clin. Proc.* 85(9):814-820(2010)  
 Shin, S.J., et al. *Eur. J. Obstet. Gynecol. Reprod. Biol.* 152(1):64-67(2010)  
 Kim, S.M., et al. *Kardiol Pol* 68(8):920-926(2010)  
 Dafni, C., et al. *BMC Med. Genet.* 11, 133 (2010) :

**eNos Antibody (S1177) - Citations**

- [Cilostazol Induces eNOS and TM Expression via Activation with Sirtuin 1/Krüppel-like Factor 2 Pathway in Endothelial Cells](#)
- [KLF2 regulates eNOS uncoupling via Nrf2/HO-1 in endothelial cells under hypoxia and reoxygenation.](#)
- [The anti-inflammatory effect and potential mechanism of cardamonin in DSS-induced colitis.](#)
- [Activation of Krüppel-Like Factor 2 with Ginkgo Biloba Extract Induces eNOS Expression and Increases NO Production in Cultured Human Umbilical Endothelial Cells.](#)