

**Phospho-eNos(S1177) Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP3665a**

## Specification

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### Phospho-eNos(S1177) Antibody - Product Information

Application	IF, DB,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="#">P79209</a>
Reactivity	Human
Predicted	Bovine, Mouse, Pig, Rat, Sheep
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG

### Phospho-eNos(S1177) Antibody - 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 phosphopeptide corresponding to amino acid residues surrounding S1177 of human eNos.

#### Dilution

IF~~1:10~50

DB~~1:500

#### 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

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

### Phospho-eNos(S1177) Antibody - 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

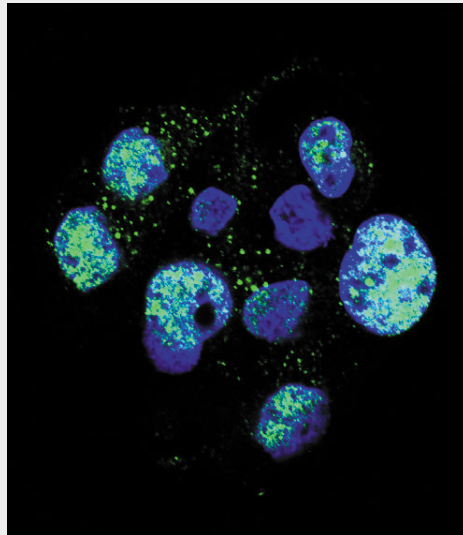
Platelets, placenta, liver and kidney.

### Phospho-eNos(S1177) Antibody - Protocols

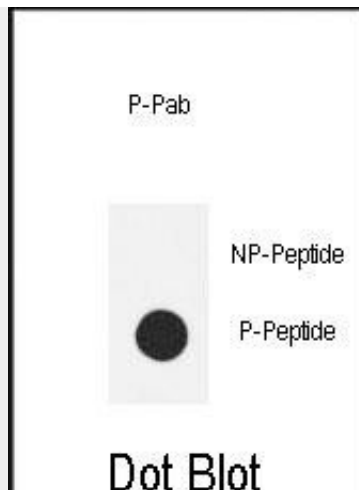
Provided below are standard protocols that you may find useful for product applications.

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

### Phospho-eNos(S1177) Antibody - Images



Confocal immunofluorescent analysis of Phospho-eNos-S1177 Antibody (Cat#AP3665a) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).



Dot blot analysis of anti-Phospho-eNos-S1177 Phospho-specific Pab (Cat. #AP3665a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

#### **Phospho-eNos(S1177) Antibody - 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.

#### **Phospho-eNos(S1177) Antibody - References**

Greif,D.M., et.al., Biochemistry 41 (52), 15845-15853 (2002)

#### **Phospho-eNos(S1177) Antibody - Citations**

- [TRPV4 Activation Contributes Functional Recovery from Ischemic Stroke via Angiogenesis and Neurogenesis.](#)