

### Phospho-eNos(S1177) Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP3665a

## **Specification**

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

Application IF, DB,E Primary Accession P29474

Other Accession <u>Q62600</u>, <u>Q28969</u>, <u>P70313</u>, <u>P29473</u>, <u>P79209</u>

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

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**

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:<u>1378832</u>). 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**

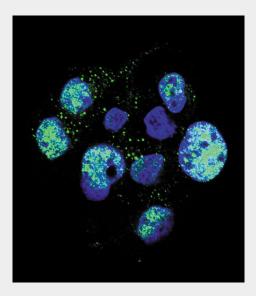
Platelets, placenta, liver and kidney.

## Phospho-eNos(S1177) Antibody - Protocols

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

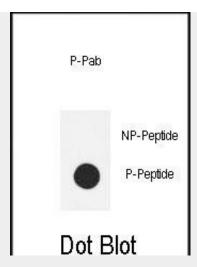
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# 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.