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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	Q62600, Q28969, P70313, P29473, P79209
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

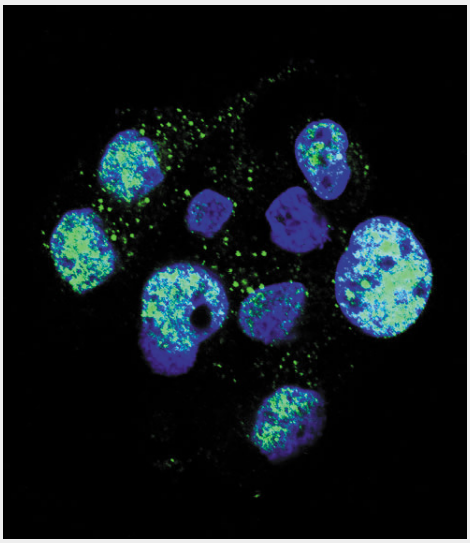
Tissue Location
Platelets, placenta, liver and kidney.

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 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 lgG (green).DAPI was used to stain the cell nuclear (blue).

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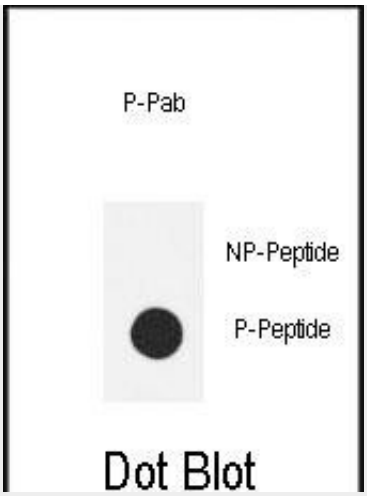

Dot blot analysis of anti-Phospho-eNos-S1177 Phospho-specific Pab (Cat. #AP3665a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

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.