

# Phospho-eNos(S1177) Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP3665a

## Product Information

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Application	DB, IF, 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>
Reactivity	Human
Predicted	Bovine, Mouse, Pig, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB21907
Calculated MW	133275

## Additional Information

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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	DB~~1:500 IF~~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	Phospho-eNos(S1177) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	NOS3 ( <a href="#">HGNC:7876</a> )
Function	Produces nitric oxide (NO) which is implicated in vascular smooth muscle relaxation through a cGMP-mediated signal transduction pathway (PubMed: <a href="#">1378832</a> ). 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.

## Background

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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.

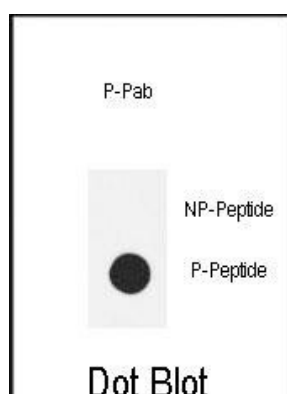
## References

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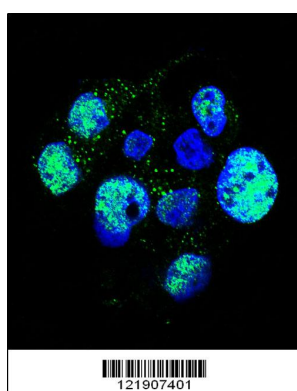
Greif,D.M., et.al., Biochemistry 41 (52), 15845-15853 (2002)

## Images

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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.



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).

## Citations

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