

eNos Antibody (S1177)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11828a

Product Information

Application	WB, FC, IF, E
Primary Accession	P29474
Other Accession	Q62600 , Q28969 , P70313 , P29473 , NP_001153582.1 , NP_000594.2 , NP_001153581.1
Reactivity	Human
Predicted	Bovine, Mouse, Pig, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB29786
Calculated MW	133275
Antigen Region	1156-1183

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	WB~~1:1000 FC~~1:10~50 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	eNos Antibody (S1177) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NOS3 (HGNC:7876)
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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.

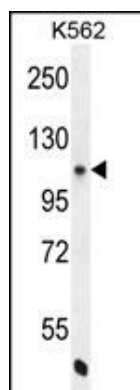
Background

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.

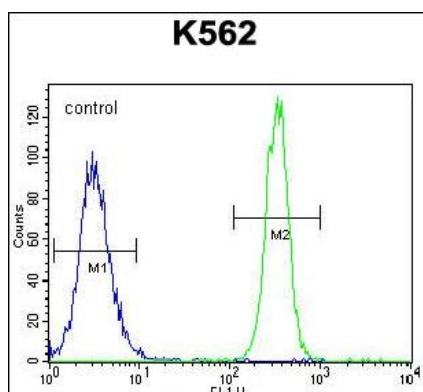
References

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 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. Kardiologia Pol 68(8):920-926(2010)
 Dafni, C., et al. BMC Med. Genet. 11, 133 (2010) :

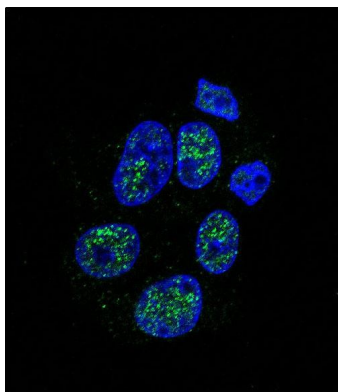
Images



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.



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).

Citations

- [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.](#)
- [Cilostazol Induces eNOS and TM Expression via Activation with Sirtuin 1/Krüppel-like Factor 2 Pathway in Endothelial Cells](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.