

Rabbit eNOS Polyclonal Antibody | anti-eNOS antibody

eNOS Antibody

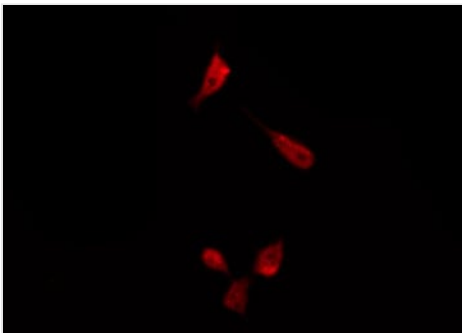
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320757	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

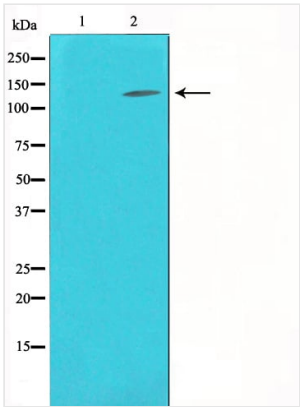
eNOS; Polyclonal Antibody; eNOS Antibody; cNOS; Constitutive NOS; EC NOS; EC-NOS; ecNOS; Endothelial nitric oxidase synthase; Endothelial nitric oxide synthase; Endothelial nitric oxide synthase 3; Endothelial NOS; Nitric oxide synthase 3 (endothelial cell); Nitric oxide synthase 3; Nitric oxide synthase 3 endothelial cell; Nitric oxide synthase endothelial; Nitric oxide synthase; endothelial; NOS 3; NOS III; NOS type III; NOS3; NOS3_HUMAN; NOSIII; anti-eNOS antibody

PRODUCT SPECIFICATIONS

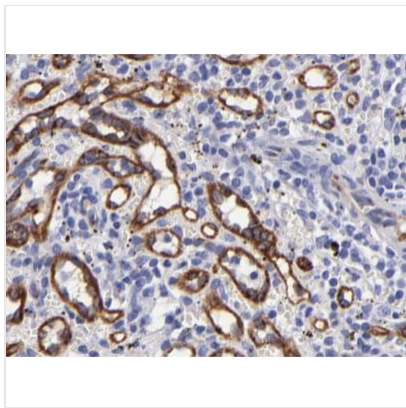
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	eNOS antibody detects endogenous levels of total eNOS
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1203
Applicable Applications for anti-eNOS antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human eNOS
Subcellular Location	Cell Membrane. Membrane, Caveola. Cytoplasm, Cytoskeleton. Golgi Apparatus. Specifically associates with actin cytoskeleton in the G2 phase of the cell cycle and which is favored by interaction with NOSIP and results in a reduced enzymatic activity.
Tissue Specificity	Platelets, placenta, liver and kidney.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IF (Immunofluorescence)
AAA320757 staining K562 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis on K562 cell lysate using eNOS Antibody, The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)
eNOS Antibody for IHC in human spleen tissue

ADDITIONAL INFORMATION

Related Product Information for anti-eNOS antibody	Description: eNOS endothelial constitutive nitric oxide synthase. Synthesizes nitric oxide (NO) from arginine and oxygen, which is implicated in vascular smooth muscle relaxation through a cGMP-mediated signal transduction pathway. NO mediates vascular endothelial growth factor (VEGF)-induced angiogenesis in coronary vessels and promotes blood clotting through the activation of platelets. Induced in humans by caloric restriction. Stimulated by calcium/calmodulin. Inhibited by NOSIP and NOSTRIN. Function: Produces nitric oxide (NO) which is implicated in vascular smooth muscle relaxation through a cGMP-mediated signal transduction pathway. NO mediates vascular endothelial growth factor (VEGF)-induced angiogenesis in coronary vessels and promotes blood clotting through the activation of platelets. Subunit Structure: Homodimer. Interacts with NOSIP and NOSTRIN. Interacts with HSP90AB1 (PubMed:23585225). Post-translational Modifications: Phosphorylation by AMPK at Ser-1177 in the presence of Ca2+-calmodulin (CaM) activates activity. In absence of Ca2+-calmodulin, AMPK also phosphorylates Thr-495, resulting in inhibition of activity (By similarity). Phosphorylation of Ser-114 by CDK5 reduces activity. Similarity: Belongs to the NOS family.
References	Li Z, Wang F, Zha S, Cao Q, Sheng J, Chen S; Journal: J Cell Physiol. SIRT1 inhibits TGF-beta-induced endothelial-mesenchymal transition in human endothelial cells with Smad4 deacetylation. Zhu FQ, Hu J, Lv FH, Cheng P, Gao S; Journal: Phytother Res. Effects of oligomeric grape seed proanthocyanidins on L-NAME-induced hypertension in pregnant mice: Role of oxidative stress and endothelial dysfunction. Hu J, Cheng P, Huang GY, Cai GW, Lian FZ, Wang XY, Gao S; Journal: Phytomedicine. Effects of Xin-Ji-Er-Kang on heart failure induced by myocardial infarction: Role of inflammation, oxidative stress and endothelial dysfunction. Lu D, Wang K, Wang S, Zhang B, Liu Q, Zhang Q, Geng J, Shan Q; Journal: Acta Physiol (Oxf). Beneficial effects of renal denervation on cardiac angiogenesis in rats with prolonged pressure overload. Ruan G, Ren H, Zhang C, Zhu X, Xu C, Wang L; Journal: Front Physiol. Cardioprotective Effects of QiShenYiQi Dripping Pills on Transverse Aortic Constriction-Induced Heart Failure in Mice.

NCBI AND UNIPROT INFORMATION

NCBI GI #	40254422
NCBI GeneID	4846
NCBI Accession #	NP_000594.2
NCBI GenBank Nucleotide #	NM_000603.4
UniProt Accession #	P29474; Q13662; Q14251; Q14434; Q548C1; Q6GSL5; Q9UDC6; A0S0A7; A0S0A8; A8KA63; B2RCQ1; E9PFR2
Molecular Weight	Observed: 140 kDa Predicted: 134 kDa
NCBI Official Full Name	nitric oxide synthase, endothelial isoform 1
NCBI Official Synonym Full Names	nitric oxide synthase 3
NCBI Official Symbol	NOS3
NCBI Official Synonym Symbols	eNOS; ECNOS
NCBI Protein Information	nitric oxide synthase, endothelial
UniProt Protein Name	Nitric oxide synthase, endothelial
UniProt Gene Name	NOS3
UniProt Synonym Gene Names	cNOS; eNOS; NOSIII

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/enos-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/320757>