

eNOS Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Bovine, Dog, Human, Mouse, Rat
Published Species	Dog, Rat, Bovine, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues P(599) Y N S S P R P E Q H K S Y K(613) C of bovine eNOS.
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	whole serum, PBS
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2251447

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	3 Publications
Immunohistochemistry (IHC)	-	15 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:250	4 Publications
Immunocytochemistry (ICC/IF)	1:250	4 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

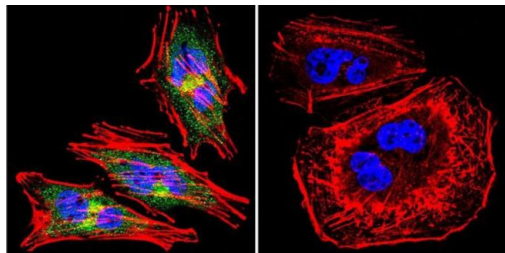
Product Specific Information

PA3-031A detects endothelial Nitric Oxide Synthase (eNOS) from canine, bovine, human, mouse and rat tissues. This antibody does not detect brain NOS (bNOS) or inducible NOS (iNOS).

PA3-031A has been successfully used in Western blot, immunohistochemistry, immunofluorescence, and immunocytochemistry procedures. By Western blot, this antibody detects an approximately 140 kDa band representing eNOS from canine cardiac extracts. Immunohistochemical staining of eNOS in mouse cardiac tissue with PA3-031 results in the staining of the endothelium.

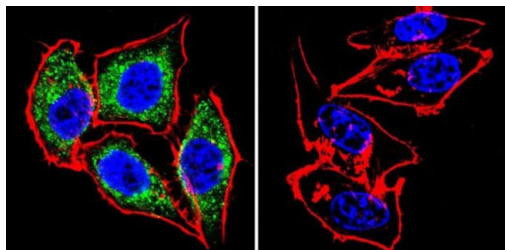
The PA3-031A immunogen is a synthetic peptide corresponding to residues P(599) Y N S S P R P E Q H K S Y K(613) C of bovine eNOS.

Product Images For eNOS Polyclonal Antibody



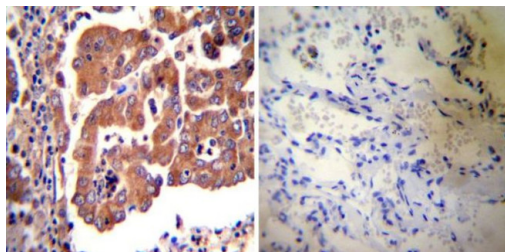
eNOS Antibody (PA3-031A) in ICC/IF

Immunofluorescent analysis of eNOS using eNOS Polyclonal Antibody (Product # PA3-031A) shows staining in A2058 Cells. eNOS (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing eNOS (Product # PA3-031A) at a dilution of 1:200 over night at 4 °C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552 for GAR, Product # 35503 for GAM). Images were taken at 60X magnification.



eNOS Antibody (PA3-031A) in ICC/IF

Immunofluorescent analysis of eNOS using eNOS Polyclonal Antibody (Product # PA3-031A) shows staining in HeLa Cells. eNOS (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing eNOS (Product # PA3-031A) at a dilution of 1:200 over night at 4 °C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552 for GAR, Product # 35503 for GAM). Images were taken at 60X magnification.



eNOS Antibody (PA3-031A) in IHC (P)

Immunohistochemistry was performed on cancer biopsies of deparaffinized Human lung adenocarcinoma tissues. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:20 with a rabbit polyclonal antibody recognizing eNOS (Product # PA3-031A) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.

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Western Blot (3)

Redox biology	Year 2021
Activation of the mechanosensitive Ca ²⁺ channel TRPV4 induces endothelial barrier permeability via the disruption of mitochondrial bioenergetics.	Species Mouse
"Published figure using eNOS polyclonal antibody (Product # PA3-031A) in Western Blot"	
Authors: Lu Q,Zemskov EA,Sun X,Wang H,Yegambaram M,Wu X,Garcia-Flores A,Song S,Tang H,Kangath A,Cabanillas GZ,Yuan JX,Wang T,Fineman JR,Black SM	
International journal of molecular medicine	Year 2020
NOS cofactor tetrahydrobiopterin contributes to anesthetic preconditioning induced myocardial protection in the isolated ex vivo rat heart.	Species Rat
"PA3-031A was used in Western Blot to observe the role of BH4 availability and the association of HSP90 with NOS3 in APC,mediated cardioprotection against I/R injury."	
Authors: Wang C,Qiao S,Hong L,Sun J,Che T,An J,Camara AKS	
View more WB references on thermofisher.com	

Immunohistochemistry (15)

Environmental science and pollution research international	Year 2023
Hepatoprotective effect of nicorandil against acetaminophen-induced oxidative stress and hepatotoxicity in mice via modulating NO synthesis.	
"Published figure using eNOS polyclonal antibody (Product # PA3-031A) in Immunohistochemistry"	
Authors: El-Kashef DH,Sharawy MH	
Cancer & metabolism	Year 2021
ASS1 and ASL suppress growth in clear cell renal cell carcinoma via altered nitrogen metabolism.	Species Human
"Published figure using eNOS polyclonal antibody (Product # PA3-031A) in Immunohistochemistry"	
Authors: Khare S,Kim LC,Lobel G,Doulias PT,Ischiropoulos H,Nissim I,Keith B,Simon MC	
View more IHC references on thermofisher.com	

More applications with references on thermofisher.com

- IHC (P) (4)
- ICC/IF (4)
- Misc (1)

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