

nNOS Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues C N(1411) R L R S E S I A F I E E S K(1425) of human nNOS.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_325021

Applications	Tested Dilution	Publications
Western Blot (WB)	1:100-1:1,000	11 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:200	1 Publication
Immunocytochemistry (ICC/IF)	1:50-1:500	3 Publications

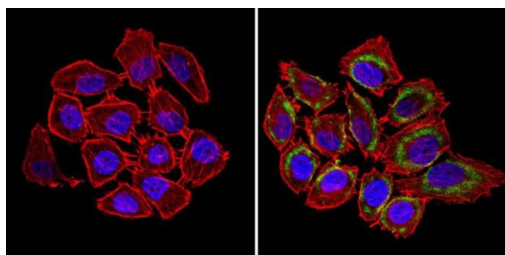
Product Specific Information

PA1-033 detects nNOS from human, rat and mouse samples.

PA1-033 has been successfully used in Western blot, ICC/IF and immunohistochemistry (paraffin) procedures. By Western blot, this antibody detects an ~160 kDa protein. Detects a few non-specific bands in Western blot analysis of rat and mouse brain lysates. This antibody is not recommended for MCF-7, PC-12, SK-N-C or U87-MG cells in Western blot applications.

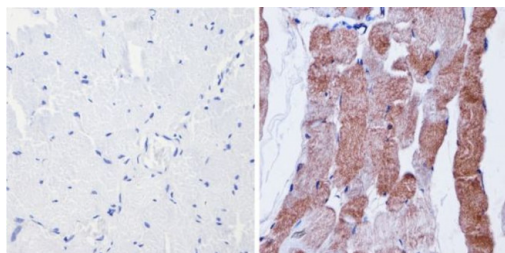
The PA1-033 immunogen is a synthetic peptide to residues C N(1411) R L R S E S I A F I E E S K(1425) of human nNOS. The peptide sequence is 100% conserved in rat, mouse, frog, and rabbit nNos proteins. This peptide (Cat. # PEP-190) is available for use in neutralization and control experiments.

Product Images For nNOS Polyclonal Antibody



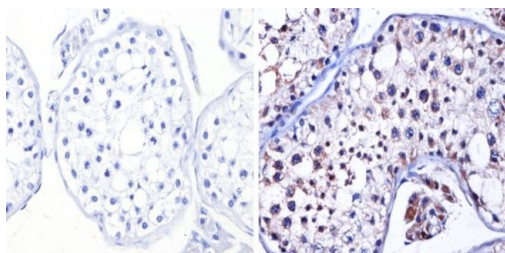
nNOS Antibody (PA1-033) in ICC/IF

Immunofluorescent analysis of nNOS (green) showing staining in the cytoplasm and membrane of U251 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with an nNOS polyclonal antibody (Product # PA1-033) in 3% BSA-PBS at a dilution of 1:100 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



nNOS Antibody (PA1-033) in IHC (P)

Immunohistochemistry analysis of nNOS showing positive staining in the cytoplasm of paraffin-treated Human skeletal muscle (right) compared with a negative control in the absence of primary antibody (left). To expose target proteins, antigen retrieval method was performed using 10mM sodium citrate (pH 6.0) microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a nNOS polyclonal antibody (Product # PA1-033) diluted by 3% BSA-PBS at a dilution of 1:200 overnight at 4°C in a humidified chamber. Tissues were washed extensively PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



nNOS Antibody (PA1-033) in IHC (P)

Immunohistochemistry analysis of nNOS showing positive staining in the cytoplasm of paraffin-treated Human testis tissue (right) compared with a negative control in the absence of primary antibody (left). To expose target proteins, antigen retrieval method was performed using 10mM sodium citrate (pH 6.0) microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a nNOS polyclonal antibody (Product # PA1-033) diluted by 3% BSA-PBS at a dilution of 1:200 overnight at 4°C in a humidified chamber. Tissues were washed extensively PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

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Western Blot (11)

Aging Aging-dependent decrease in the numbers of enteric neurons, interstitial cells of Cajal and expression of connexin43 in various regions of gastrointestinal tract. "PA1-033 was used in Western Blotting to study ageing-associated differences between different organs and the exact time to start degenerating." Authors: Sun T,Li D,Hu S,Huang L,Sun H,Yang S,Wu B,Ji F,Zhou D	Year 2018 Species Mouse Dilution 1:1,000
American journal of physiology. Regulatory, integrative and comparative physiology Pregnant rats treated with a high-fat/prooxidant Western diet with ANG II and TNF- are resistant to elevations in blood pressure and renal oxidative stress. "Published figure using nNOS polyclonal antibody (Product # PA1-033) in Western Blot" Authors: Cunningham MW,West CA,Wen X,Deng A,Baylis C	Year 2015 Species Rat Dilution 1:500

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Immunohistochemistry (1)

Cancer & metabolism ASS1 and ASL suppress growth in clear cell renal cell carcinoma via altered nitrogen metabolism. "PA1-033 was used in Immunohistochemistry to elucidate the contributions of urea cycle enzymes, argininosuccinate synthase 1 (ASS1), and argininosuccinate lyase (ASL) towards ccRCC progression." Authors: Khare S,Kim LC,Lobel G,Doulias PT,Ischiropoulos H,Nissim I,Keith B,Simon MC	Year 2021 Species Human
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Immunohistochemistry (Paraffin) (1)

Journal of investigative surgery : the official journal of the Academy of Surgical Research Effects of Aloe Vera on Spinal Cord Ischemia-Reperfusion Injury of Rats. "PA1-033 was used in immunohistochemistry - paraffin section to research spinal cord ischemia-reperfusion injury of rats and the effects of aloe vera" Authors: Yuksel Y,Guven M,Kaymaz B,Sehitoglu MH,Aras AB,Akman T,Tosun M,Cosar M	Year 2016
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ICC/IF (3)

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