



nNOS Polyclonal Antibody

Product Details	
Size	100 μg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Туре	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

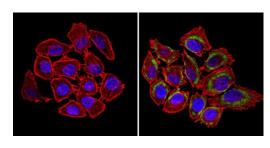
Product Specific Information

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

PA1-033 has been successfully used in Western blot, ICC/IF and immunohistochemisty (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.

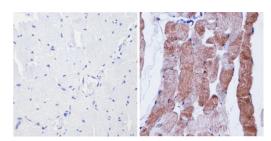
The PA1-033 immunogen is a synthetic peptide to residues C N(1411) R L R S E S I A F I E E S K(1425) of human nNOS. The peptide sequence is 100% conserved in rat, mouse, frog, and rabbit nNos proteins. This peptide (Cat. # PEP-190) is available for use in neutralization and control experiments.

Product Images For nNOS Polyclonal Antibody



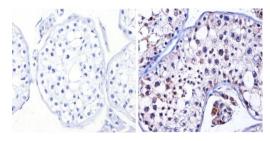
nNOS Antibody (PA1-033) in ICC/IF

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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□ 16 References

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

View more WB references on thermofisher.com

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

Immunohistochemistry (Paraffin) (1)

Journal of investigative surgery : the official journal of the Academy of Surgical Research

Year 2016

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

More applications with references on thermofisher.com

ICC/IF (3)

For Research Use Only, Not for use in diagnostic procedures, Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production specifications and or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty in provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty does not extend to anyone other than the Buyer. Any model or sample turnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT.

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