

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 |

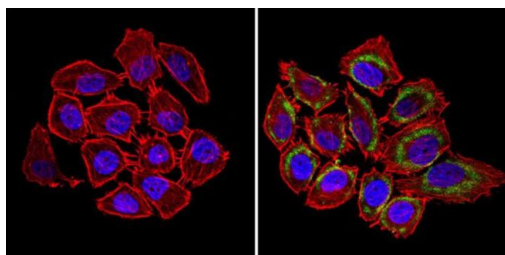
Product Specific Information

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.

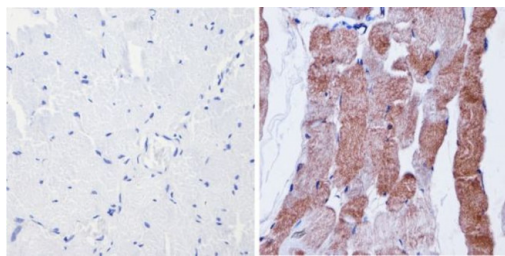
The PA1-033 immunogen is a synthetic peptide to residues C N(1411) R L R S E S I A F I E E S K(1425) of human nNOS. The peptide sequence is 100% conserved in rat, mouse, frog, and rabbit nNos proteins. This peptide (Cat. # PEP-190) is available for use in neutralization and control experiments.

Product Images For nNOS Polyclonal Antibody



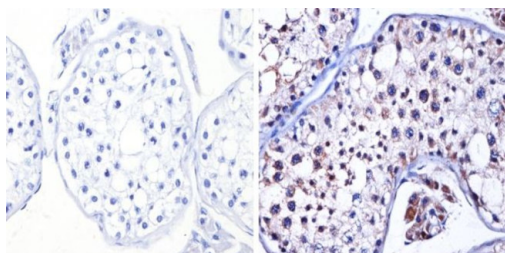
nNOS Antibody (PA1-033) in ICC/IF

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.

[View more figures on thermofisher.cn](https://thermofisher.cn)

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.cn](#)

Immunohistochemistry (1)

Cancer & metabolism

ASS1 and ASL suppress growth in clear cell renal cell carcinoma via altered nitrogen metabolism.

"Published figure using nNOS polyclonal antibody (Product # PA1-033) in Immunohistochemistry"

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

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

More applications with references on thermofisher.cn

ICC/IF (3)

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