

Datasheet for ABIN1680436

anti-NOS1 antibody

4 Images

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Overview

Quantity:	100 µg
Target:	NOS1
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This NOS1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	A synthesized peptide derived from human nNOS .
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	NOS1
Alternative Name:	nNOS (NOS1 Products)
Background:	The protein encoded by this gene belongs to the family of nitric oxide synthases, which synthesize nitric oxide from L-arginine. Nitric oxide is a reactive free radical, which acts as a

Target Details

biologic mediator in several processes, including neurotransmission, and antimicrobial and antitumoral activities. In the brain and peripheral nervous system, nitric oxide displays many properties of a neurotransmitter, and has been implicated in neurotoxicity associated with stroke and neurodegenerative diseases, neural regulation of smooth muscle, including peristalsis, and penile erection. This protein is ubiquitously expressed, with high level of expression in skeletal muscle. Multiple transcript variants that differ in the 5' UTR have been described for this gene but the full-length nature of these transcripts is not known. Additionally, alternatively spliced transcript variants encoding different isoforms (some testis-specific) have been found for this gene.,NOS1, IHPS1, N-NOS, NC-NOS, NOS, bNOS, nNOS, nitric oxide synthase 1,Cancer,Signal Transduction,MAPK-Erk Signaling Pathway,Endocrine & Metabolism,Neuroscience,Neurodegenerative Diseases,Cardiovascular,Angiogenesis,nNOS

Molecular Weight: 161 kDa

Gene ID: 4842

UniProt: [P29475](#)

Pathways: [Negative Regulation of Hormone Secretion](#), [Myometrial Relaxation and Contraction](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IF,1:50 - 1:200

Restrictions: For Research Use only

Handling

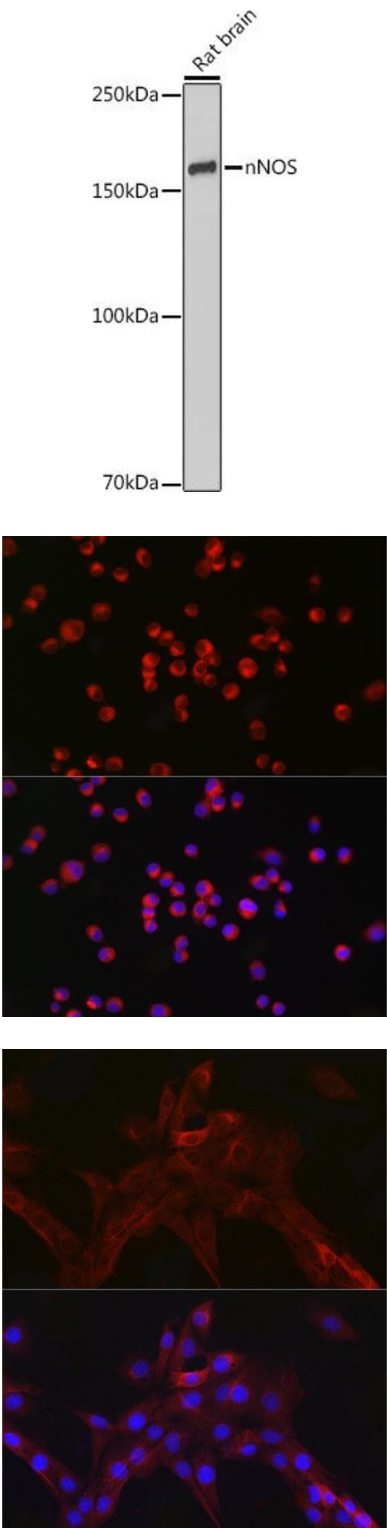
Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



Western Blotting

Image 1. Western blot analysis of extracts of Rat brain, using nNOS antibody (ABIN1680436, ABIN1680435, ABIN7101483 and ABIN7101484) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.

Immunofluorescence

Image 2. Immunofluorescence analysis of Neuro-2a cells using nNOS Rabbit mAb (ABIN1680436, ABIN1680435, ABIN7101483 and ABIN7101484) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Immunofluorescence

Image 3. Immunofluorescence analysis of PC-12 cells using nNOS Rabbit mAb (ABIN1680436, ABIN1680435, ABIN7101483 and ABIN7101484) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1680436.