

## ARG56510 anti-nNOS antibody

Package: 250 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes nNOS
Tested Reactivity	Hu, Rat
Tested Application	ICC/IF, IHC-P, IP, WB
Specificity	This antibody does not react to eNOS and iNOS.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	nNOS
Species	Human
Immunogen	Synthetic peptide around aa. 1422-1433 of Human nNOS. (ESKKDTDEVFSS)
Conjugation	Un-conjugated
Alternate Names	Constitutive NOS; IHPS1; N-NOS; Neuronal NOS; Nitric oxide synthase, brain; bNOS; NC-NOS; Peptidyl-cysteine S-nitrosylase NOS1; EC 1.14.13.39; NOS type I; nNOS; NOS

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:500
	IHC-P	1:500
	IP	Assay-dependent
	WB	1:200
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Database links

[GeneID: 24598 Rat](#)

[GeneID: 4842 Human](#)

[Swiss-port # P29475 Human](#)

[Swiss-port # P29476 Rat](#)

Gene Symbol

NOS1

Gene Full Name

nitric oxide synthase 1 (neuronal)

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 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.[provided by RefSeq, Feb 2011]

Function

Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. In the brain and peripheral nervous system, NO displays many properties of a neurotransmitter. Probably has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such SRR. [UniProt]

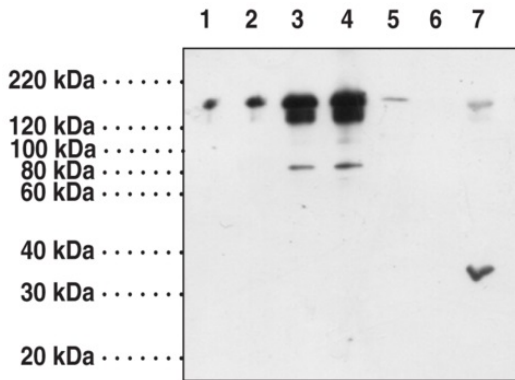
Calculated Mw

161 kDa

PTM

Ubiquitinated; mediated by STUB1/CHIP in the presence of Hsp70 and Hsp40 (in vitro).

Images



ARG56510 anti-nNOS antibody WB image

Western blot: 1) 0.005 µg of nNOS recombinant protein, 2) 0.01 µg of nNOS recombinant protein, 3) 0.05 µg of nNOS recombinant protein, 4) 0.1 µg of nNOS recombinant protein, 5) 0.1 µg of iNOS recombinant protein, 6) 0.1 µg of eNOS recombinant protein, and 7) 30 µg of Mouse brain soluble membrane stained with ARG56510 anti-nNOS antibody.