

NOS1 / nNOS Antibody (aa1422-1433)
Rabbit Polyclonal Antibody
Catalog # ALS11805**Specification**

NOS1 / nNOS Antibody (aa1422-1433) - Product Information

Application	WB, IHC-P, ICC, IP
Primary Accession	P29475
Reactivity	Human, Mouse, Rabbit, Monkey, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	161kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A ICC~~N/A IP~~N/A

NOS1 / nNOS Antibody (aa1422-1433) - Additional Information**Gene ID** 4842**Other Names**

Nitric oxide synthase, brain, 1.14.13.39, Constitutive NOS, NC-NOS, NOS type I, Neuronal NOS, N-NOS, nNOS, Peptidyl-cysteine S-nitrosylase NOS1, bNOS, NOS1

Target/Specificity

Human nNOS amino acids 1422-1433 (ESKKDTDEVFSS)1,2

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

NOS1 / nNOS Antibody (aa1422-1433) is for research use only and not for use in diagnostic or therapeutic procedures.

NOS1 / nNOS Antibody (aa1422-1433) - Protein Information**Name** NOS1 ([HGNC:7872](#))**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.

Cellular Location

Cell membrane, sarcolemma {ECO:0000250|UniProtKB:Q9Z0J4}; Peripheral membrane protein.

Cell projection, dendritic spine {ECO:0000250|UniProtKB:P29476}. Note=In skeletal muscle, it is localized beneath the sarcolemma of fast-twitch muscle fiber by associating with the dystrophin glycoprotein complex (By similarity) In neurons, enriched in dendritic spines (By similarity) {ECO:0000250|UniProtKB:P29476, ECO:0000250|UniProtKB:Q9Z0J4}

Tissue Location

Isoform 1 is ubiquitously expressed: detected in skeletal muscle and brain, also in testis, lung and kidney, and at low levels in heart, adrenal gland and retina. Not detected in the platelets. Isoform 3 is expressed only in testis. Isoform 4 is detected in testis, skeletal muscle, lung, and kidney, at low levels in the brain, but not in the heart and adrenal gland

Volume

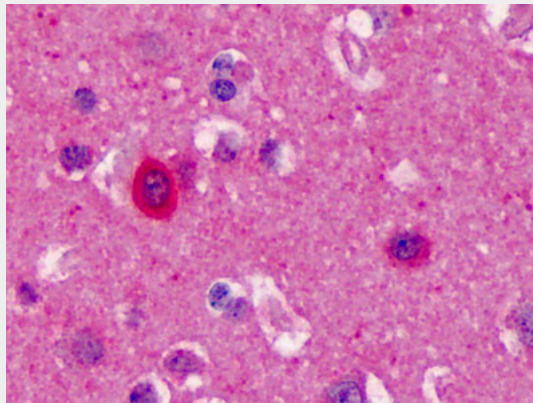
Array

NOS1 / nNOS Antibody (aa1422-1433) - Protocols

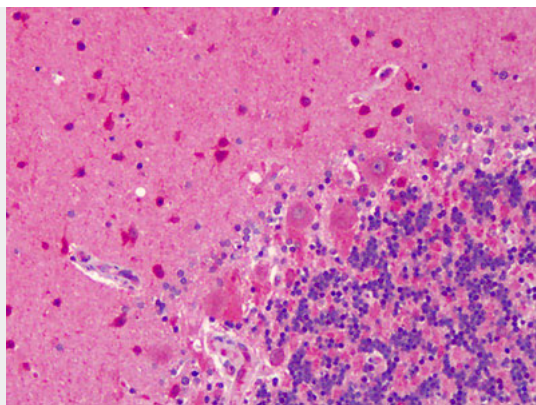
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NOS1 / nNOS Antibody (aa1422-1433) - Images



Anti-nNOS / NOS1 antibody IHC of human brain, cortex.



Anti-nNOS / NOS1 antibody IHC of human brain, cerebellum.

NOS1 / nNOS Antibody (aa1422-1433) - Background

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.

NOS1 / nNOS Antibody (aa1422-1433) - References

Hall A.V.,et al.J. Biol. Chem. 269:33082-33090(1994).
Fujisawa H.,et al.J. Neurochem. 63:140-145(1994).
Nakane M.,et al.FEBS Lett. 316:175-180(1993).
Park C.-S.,et al.Cell. Mol. Neurobiol. 16:499-515(1996).
Wang Y.,et al.J. Biol. Chem. 272:11392-11401(1997).

NOS1 / nNOS Antibody (aa1422-1433) - Citations

- [Chronic Intermittent Hypobaric Hypoxia Ameliorates Renal Vascular Hypertension Through Up-regulating NOS in Nucleus Tractus Solitarii.](#)