

ARG40689 anti-nNOS antibody

Package: 50 µg
Store at: -20°C

Summary

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| Product Description | Rabbit Polyclonal antibody recognizes nNOS |
| Tested Reactivity | Ms, Rat |
| Tested Application | WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | nNOS |
| Species | Human |
| Immunogen | Synthetic peptide corresponding to aa. 1402-1434 of Human nNOS. (VTLRTYEVTNRLRSESI AFIEESKKDTDEVFSS) |
| 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 |
| | WB | 1:500 - 1:2000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |

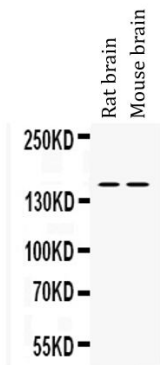
Properties

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| Form | Liquid |
| Purification | Affinity purification with immunogen. |
| Buffer | 0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 5% BSA. |
| Preservative | 0.05% Sodium azide |
| Stabilizer | 5% BSA |
| Concentration | 0.5 mg/ml |
| 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 or below. 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

| | |
|-----------------------|--|
| 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). [UniProt] |
| Cellular Localization | Cell membrane, sarcolemma; Peripheral membrane protein. Cell projection, dendritic spine. Note=In skeletal muscle, it is localized beneath the sarcolemma of fast-twitch muscle fiber by associating with the dystrophin glycoprotein complex. In neurons, enriched in dendritic spines (By similarity). [UniProt] |

Images



ARG40689 anti-nNOS antibody WB image

Western blot: Rat brain and Mouse brain lysates stained with ARG40689 anti-nNOS antibody at 0.5 µg/ml dilution.