

Resource Summary Report

Generated by [SPARC SAWG](#) on Jul 28, 2026

Anti-Nitric Oxide Synthase I Antibody

RRID:AB_91824

Type: Antibody

Proper Citation

Sigma-Aldrich Cat# AB5380, RRID:AB_91824

Antibody Information

URL: http://antibodyregistry.org/AB_91824

Proper Citation: Sigma-Aldrich Cat# AB5380, RRID:AB_91824

Target Antigen: Nitric Oxide Synthase I (NOS-I, bNOS, nNOS)

Host Organism: rabbit

Clonality: polyclonal

Comments: Applications: IHC, WB

Antibody Name: Anti-Nitric Oxide Synthase I Antibody

Description: This polyclonal targets Nitric Oxide Synthase I (NOS-I, bNOS, nNOS)

Target Organism: monkey, rat, simian, mouse, human, sheep

Defining Citation: [PMID:22740069](#), [PMID:21280043](#)

Antibody ID: AB_91824

Vendor: Sigma-Aldrich

Catalog Number: AB5380

Record Creation Time: 20250820T012543+0000

Record Last Update: 20250820T105434+0000

Ratings and Alerts

No rating or validation information has been found for Anti-Nitric Oxide Synthase I Antibody.

No alerts have been found for Anti-Nitric Oxide Synthase I Antibody.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 21 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Shi HJ, et al. (2024) Hippocampal excitation-inhibition balance underlies the 5-HT_{2C} receptor in modulating depressive behaviours. *Brain : a journal of neurology*, 147(11), 3764.

Schneider KM, et al. (2023) The enteric nervous system relays psychological stress to intestinal inflammation. *Cell*, 186(13), 2823.

Putra BP, et al. (2023) Pcgf1 gene disruption reveals primary involvement of epigenetic mechanism in neuronal subtype specification in the enteric nervous system. *Development, growth & differentiation*, 65(8), 461.

Shi HJ, et al. (2022) Requirement of hippocampal DG nNOS-CAPON dissociation for the anxiolytic and antidepressant effects of fluoxetine. *Theranostics*, 12(8), 3656.

Nestor-Kalinowski A, et al. (2022) Unique Neural Circuit Connectivity of Mouse Proximal, Middle, and Distal Colon Defines Regional Colonic Motor Patterns. *Cellular and molecular gastroenterology and hepatology*, 13(1), 309.

Swiegers J, et al. (2021) The distribution, number, and certain neurochemical identities of infracortical white matter neurons in the brains of a southern lesser galago, a black-capped squirrel monkey, and a crested macaque. *The Journal of comparative neurology*, 529(16), 3676.

Wright CM, et al. (2021) scRNA-Seq Reveals New Enteric Nervous System Roles for GDNF, NRTN, and TBX3. *Cellular and molecular gastroenterology and hepatology*, 11(5), 1548.

Ni RJ, et al. (2021) Whole-Brain Afferent Inputs to the Caudate Nucleus, Putamen, and Accumbens Nucleus in the Tree Shrew Striatum. *Frontiers in neuroanatomy*, 15, 763298.

Javed H, et al. (2021) Co-localization of nociceptive markers in the lumbar dorsal root ganglion and spinal cord of dromedary camel. *The Journal of comparative neurology*, 529(17), 3710.

Swiegers J, et al. (2021) The distribution, number, and certain neurochemical identities of infracortical white matter neurons in a chimpanzee (*Pan troglodytes*) brain. *The Journal of comparative neurology*, 529(14), 3429.

Bokuli?? E, et al. (2021) The Stereological Analysis and Spatial Distribution of Neurons in the Human Subthalamic Nucleus. *Frontiers in neuroanatomy*, 15, 749390.

Zhu LJ, et al. (2020) nNOS-CAPON blockers produce anxiolytic effects by promoting synaptogenesis in chronic stress-induced animal models of anxiety. *British journal of pharmacology*, 177(16), 3674.

Bhagwandin A, et al. (2020) Distribution, number, and certain neurochemical identities of infracortical white matter neurons in the brains of three megachiropteran bat species. *The Journal of comparative neurology*, 528(17), 3023.

Zhu LJ, et al. (2020) Systemic administration of ZLc-002 exerts anxiolytic-like effects by dissociation of nNOS from CAPON in adult mice. *Biochemical and biophysical research communications*, 523(2), 299.

Melo CGS, et al. (2020) Identification of intrinsic primary afferent neurons in mouse jejunum. *Neurogastroenterology and motility : the official journal of the European Gastrointestinal Motility Society*, 32(12), e13989.

Yamawaki N, et al. (2019) Long-range inhibitory intersection of a retrosplenial thalamocortical circuit by apical tuft-targeting CA1 neurons. *Nature neuroscience*, 22(4), 618.

Cipriani G, et al. (2019) Muscularis Propria Macrophages Alter the Proportion of Nitrergic but Not Cholinergic Gastric Myenteric Neurons. *Cellular and molecular gastroenterology and hepatology*, 7(3), 689.

Swiegers J, et al. (2019) The distribution, number, and certain neurochemical identities of infracortical white matter neurons in a lar gibbon (*Hylobates lar*) brain. *The Journal of comparative neurology*, 527(10), 1633.

Viney TJ, et al. (2018) Shared rhythmic subcortical GABAergic input to the entorhinal cortex and presubiculum. *eLife*, 7.

Zhu LJ, et al. (2018) Hippocampal nuclear factor kappa B accounts for stress-induced anxiety behaviors via enhancing neuronal nitric oxide synthase (nNOS)-carboxy-terminal PDZ ligand of nNOS-Dexas1 coupling. *Journal of neurochemistry*, 146(5), 598.