

# Resource Summary Report

Generated by [ASWG](#) on Aug 9, 2026

## Anti-Nitric Oxide Synthase I Antibody

RRID:AB\_91824

Type: Antibody

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### Proper Citation

Sigma-Aldrich Cat# AB5380, RRID:AB\_91824

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### Antibody Information

**URL:** [http://antibodyregistry.org/AB\\_91824](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

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### 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.

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## Data and Source Information

**Source:** [Antibody Registry](#)

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## Usage and Citation Metrics

We found 22 mentions in open access literature.

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

Isola M, et al. (2026) Neuronal nitric oxide synthase expression in secretory cells of the human parotid and submandibular salivary glands: evidence from light and electron microscopy. *Cell and tissue research*, 403(2), 19.

Shi HJ, et al. (2024) Hippocampal excitation-inhibition balance underlies the 5-HT<sub>2C</sub> 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-Kalinoski 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.

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

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.

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.

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.

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.

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.

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.

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.

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.

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.