

Anti-nNOS (neuronal)/NOS1 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: A01070-Fluoro488

About NOS1

Nitric oxide synthase 1 (neuronal), also known as NOS1, is an enzyme that in humans is encoded by the NOS1 gene. 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.

Overview

Product Name	Anti-nNOS (neuronal)/NOS1 Antibody Picoband® Fluoro488 Conjugated
Reactive Species	Human, Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P29475

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human nNOS(neuronal), identical to the related mouse sequence, and different from the related rat sequence by one amino acid.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.

Conjugate	Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

8 Publications Citing This Product

1. PubMed ID: 31742429, Singh S, Kumar V, Kumar N, Sharma P, Waheed SM. Protective and Modulatory Effects of *Trapa bispinosa* and *Trigonella foenum-graecum* on Neuroblastoma Cells Through Neuronal Nitric Oxide Synthase. *Assay Drug Dev Technol*. 2020 Jan;18(1):64-74. doi:10.1089/adt.2018.91
2. PubMed ID: 12046087, Distribution of constitutive nitric oxide synthase in the jejunum of adult rat
3. PubMed ID: 29581524, George AK, Behera J, Kelly KE, Mondal NK, Richardson KP, Tyagi N. *Sci Rep*. 2018 Mar 26;8(1):5158. doi: 10.1038/s41598-018-23568-z. Exercise Mitigates Alcohol Induced Endoplasmic Reticulum Stress Mediated Cognitive Impairment through ATF6-Herp Signaling.

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