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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-nNOS (neuronal)/NOS1 Antibody Picoband®

Catalog Number: PA1329

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®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-nNOS (neuronal)/NOS1 Antibody catalog # PA1329. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
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 and rat sequences.

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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Rat, Human, Mouse Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse

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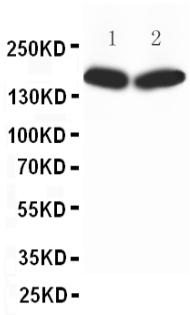
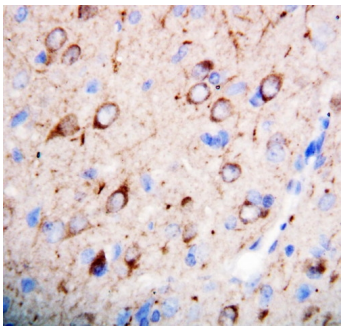
Anti-nNOS (neuronal)/NOS1 Antibody Picoband® (PA1329) Images



Anti-nNOS(neuronal) antibody, PA1329, Western blottingAll lanes: Anti nNOS(neuronal)(PA1329) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: MCF-7 Whole Cell Lysate at 40ugPredicted bind size: 160KDObserved bind size: 160KD



Anti-nNOS(neuronal) antibody, PA1329, IHC(P)IHC(P): Rat Brain Tissue

16 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: 28218896, Ding J, Tang Y, Tang Z, Zhang X, Wang G. Med Sci Monit. 2017 Feb 20;23:929-937. A Variant in the Precursor of MicroRNA-146a is Responsible for Development of Erectile Dysfunction in Patients with Chronic Prostatitis via Targeting NOS1

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