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Anti-Nitric Oxide Synthase, Brain(1-181) NOS1 Antibody (Monoclonal, NOS-B1)

Catalog Number: MA1072

About Nos1

Nitric Oxide Synthase 1 (NOS1,neuronal NOS,nNOS1) is a messenger molecule, mediating the effect of endothelium-derived relaxing factor in blood vessels and the cytotoxic actions of macrophages, and playing a part in neuronal communication in the brain. It may be involved in neuronal cell death and damage in neurological illness. nNOS1 localized to the 12q24.2 region of human chromosome 12. It splice variant, expressed in testis, that encodes an NH2-terminal truncated protein of 1098 amino acids. nNOS cDNA clones were shown to contain different 5' terminal exons spliced to a common exon 2. Genomic cloning and sequence analysis demonstrate that the unique exons are positioned within 300 bp of each other but separated from exon 2 by an intron that is at least 20 kb in length. The neuronal isoform of nitric oxide synthase is highly expressed in mammalian skeletal muscle, it suggested a specific role for NOS1 in the local metabolic inhibition of alpha-adrenergic vasoconstriction in active skeletal muscle. The novel gaseous neuromediator nitric oxide is though to play an important role in development and plasticity. Despite this, gene-knockout mice lacking neuronal (Type I) nitric oxide synthase exhibit relatively normal brain development and behavior.

Overview

Product Name	Anti-Nitric Oxide Synthase, Brain(1-181) NOS1 Antibody (Monoclonal, NOS-B1)
Reactive Species	Goat, Human, Pig, Rat
Description	Boster Bio Anti-Nitric Oxide Synthase, Brain (1-181) NOS1 Antibody (Monoclonal, NOS-B1) catalog # MA1072. Tested in WB applications. This antibody reacts with Goat, Human, Pig, Rat.
Application	WB
Clonality	Monoclonal NOS-B1
Formulation	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.
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	Mouse
Uniprot ID	P29476

Technical Details

Immunogen	Recombinant neuronal NOS fragment (amino acids 1-181) from rat brain.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Mouse IgG1

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Form	Lyophilized
Concentration	Adding 1 ml of PBS buffer will yield a concentration of 100 ug/ml.
Purification	Ascites
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.5ug/ml, Human, goat, pig, rat

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Anti-Nitric Oxide Synthase, Brain(1-181) NOS1 Antibody (Monoclonal, NOS-B1) (MA1072) Images

Boster Kit Box

5 Publications Citing This Product

1. PubMed ID: 12046087, Distribution of constitutive nitric oxide synthase in the jejunum of adult rat

2. PubMed ID: 24287205, Hou Sx, Zhu Wj, Pang Mq, Jeffry J, Zhou Ll. Food Chem Toxicol. 2014 Feb;64:57-64. Doi: 10.1016/J.Fct.2013.11.022. Epub 2013 Nov 26. Protective Effect Of Iridoid Glycosides From Paederia Scandens (Lour.) Merrill (Rubiaceae) On Uric Acid Nephropathy...

3. PubMed ID: 19304734, Gao S, Long Cl, Wang Rh, Wang H. Cardiovasc Res. 2009 Aug 1;83(3):444-56. Doi: 10.1093/Cvr/Cvp099. Epub 2009 Mar 20. K(Atp) Activation Prevents Progression Of Cardiac Hypertrophy To Failure Induced By Pressure Overload Via Protecting Endothelial F...

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