

Anti-iNOS/NOS2 Antibody

Catalog Number: PA1330-1

About NOS2

Nitric oxide synthase, inducible is an enzyme that in humans is encoded by the NOS2 gene. Nitric oxide (NO) is a messenger molecule with diverse functions throughout the body. In the brain and peripheral nervous system, NO displays many properties of a neurotransmitter; it is implicated in neurotoxicity associated with stroke and neurodegenerative diseases, neural regulation of smooth muscle, including peristalsis, and penile erection. Three different NOS isoforms have been identified which fall into two distinct types, constitutive and inducible. The inducible NOS (iNOS) isoform is expressed in a variety of cell types and tissues in response to inflammatory agents and cytokines. The human iNOS (NOS2) gene is approximately 37 kb in length and consists of 26 exons and 25 introns. Diefenbach et al. (1999) studied the relationship of IL12 and nitric oxide synthase-2 (NOS2) to innate immunity to the parasite Leishmania in mice. And conclude that NOS2-derived NO is a prerequisite for cytokine signaling and function in innate immunity. From studies in Tanzania and Kenya, Hobbs et al. (2002) identified a novel single-nucleotide polymorphism, -1173C-T (163730.0001), in the NOS2 promoter that was significantly associated with protection from symptomatic malaria and severe malarial anemia.

Overview

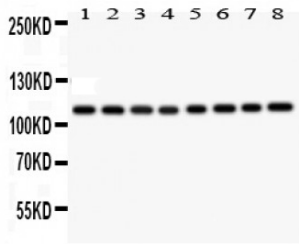
Product Name	Anti-iNOS/NOS2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-iNOS/NOS2 Antibody catalog # PA1330-1. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal WH-3
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
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	P35228

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human NOS2, different from the related rat sequences by nine amino acids, and from the related mouse sequences by eight amino acids.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross reactivity with other proteins

Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p>

Anti-iNOS/NOS2 Antibody (PA1330-1) Images



Anti--NOS2 antibody, PA1330-1, Western blotting
All lanes: Anti-NOS2 antibody at 0.5ug/ml, PA1330-1
Lane 1: Rat brain tissue Lysate at 50ug
Lane 2: Mouse brain tissue Lysate at 50ug
Lane 3: Rat PC12 whole Cell Lysate at 40ug
Lane 4: Rat NRK whole Cell Lysate at 40ug
Lane 5: Hela whole Cell Lysate at 40ug
Lane 6: Human placenta tissue Lysate at 50ug
Lane 7: HT1080 whole Cell Lysate at 40ug
Lane 8: MM1231 whole Cell Lysate at 40ug
Predicted bind size: 110KD
Observed bind size: 110KD

5 Publications Citing This Product

1. PubMed ID: 21798733, Fan Sj, Jiang H, Yang Lj, Liu X, Song J, Pan F. Ann Anat. 2011 Oct 20;193(5):418-24. Doi: 10.1016/J.Aanat.2011.06.001. Epub 2011 Jul 8. Effects Of Adrenergic Agents On Stress-Induced Brain Microstructural And Immunochemical Changes In Adult Male W...
2. PubMed ID: 28843179, Zhang, Q., Wang, L., Chen, B., Zhuo, Q., Bao, C., & Lin, L. (2017). Propofol inhibits NF-kappaB activation to ameliorate airway inflammation in ovalbumin (OVA)-induced allergic asthma mice. International Immunopharmacology, 51, 158-164. doi: 10.1016/j...
3. PubMed ID: 29241205, Xu, W., Zheng, D., Liu, Y., Li, J., Yang, L., & Shang, X.. (2017). Glaucoalyxin B Alleviates Lipopolysaccharide-Induced Parkinson's Disease by Inhibiting TLR/NF-kappaB and Activating Nrf2/HO-1 Pathway. Cellular Physiology and Biochemistry, 44(6), 209...

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