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antibody and ELISA experts

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Anti-Nitric oxide synthase (inducible) Nos2 Antibody

Catalog Number: A00368-1

About Nos2

This enzyme is necessary for target cell lysis in cell-mediated immune responses. It cleaves after Asp. Seems to be linked to an activation cascade of caspases (aspartate-specific cysteine proteases) responsible for apoptosis execution. Cleaves caspase-3, -7, -9 and 10 to give rise to active enzymes mediating apoptosis.

David A. Jans, J. Biol. Chem., Nov 1996; 271: 30781.
Eugene Estella, Diabetes, Aug 2006; 55: 2212 - 2219.
Yong Gu, J. Biol. Chem., May 1996; 271: 10816.
Jiuru Sun, J. Biol. Chem., Nov 1996; 271: 27802.

Overview

Product Name	Anti-Nitric oxide synthase (inducible) Nos2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Nitric oxide synthase (inducible) Nos2 Antibody (Catalog# A00368-1). Tested in ICC, IHC, WB application(s). This antibody reacts with Human, Mouse, Rat.
Application	IHC, ICC, WB
Clonality	Polyclonal
Formulation	Liquid. In PBS containing 0.05% sodium azide.
Storage Instructions	Store at -80°C for long-term storage. Avoid freeze/thaw cycles. After reconstitution, prepare aliquots and store at -20°C.
Host	Rabbit
Uniprot ID	P29477

Technical Details

Immunogen	Synthetic peptide corresponding to aa 1131-1141 of mouse macrophage NOS
Predicted Reactive Species	Canine, Monkey
Cross Reactivity	Does not cross-react with eNOS or nNOS.
Isotype	IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution

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	procedure.
Purification	-
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: Immunocytochemistry (1:500) Immunohistochemistry (1:500) Western Blot (1:2,000). Detects a band of ~130kDa. Suggested dilutions/conditions may not be available for all applications. Optimal conditions must be determined individually for each application.

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Anti-Nitric oxide synthase (inducible) Nos2 Antibody (A00368-1) Images

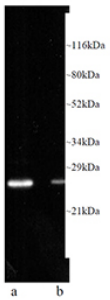

Figure 1. Western blot analysis of Nos2 using anti-Nos2 antibody (A00368-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Nos2 antigen affinity purified polyclonal antibody (Catalog # A00368-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-Rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # SA1022) with Tanon 5200 system. A specific band was detected for Nos2.

19 Publications Citing This Product

1. PubMed ID: 10.2147/IJN.S104856, Suppression of synaptic plasticity by fullerenol in rat hippocampus in vitro

2. PubMed ID: -, Bautista-Pérez R,Cano-Martínez A,Gutiérrez-Velázquez E,Martínez-Rosas M,Pérez-Gutiérrez RM,Jiménez-Gómez F,Flores-Estrada J.Spinach Methanolic Extract Attenuates the Retinal Degeneration in Diabetic Rats.Antioxidants.2021;10(5):717.https://doi.org/10.3390/antiox10050717

3. PubMed ID: 32243998, Amin N,Xie S,Tan X,Chen Y,Ren Q,Botchway BOA,Hu S,Ma Y,Hu Z,Fang M.Optimized integration of fluoxetine and 7, 8-dihydroxyflavone as an efficient therapy for reversing depressive-like behavior in mice during the perimenopausal period.Prog Neuropsychopharma

Visit bosterbio.com/anti-nitric-oxide-synthase-inducible-antibody-a00368-1-boster.html to see all 19 publications.

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