BOSTER BIOLOGICAL TECHNOLOGY
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Anti-NADPH oxidase 1 NOX1 Antibody Picoband®

Catalog Number: PA1739

About NOX1

NOX1 (NADPH OXIDASE 1), also known as NOH1, MOX1 or GP91-2, is an enzyme that in humans is encoded by the NOX1 gene. It is also a homolog of the catalytic subunit of the superoxide-generating NADPH oxidase of phagocytes, gp91phox. The NOX1 gene is mapped to Xq22.1. NOX1 was expressed in colon, prostate, uterus, and vascular smooth muscle, but not in peripheral blood leukocytes. The deduced 564-amino acid NOX1 protein, which is 58% identical to CYBB, contains 6 membrane-spanning regions, conserved flavin and pyridine nucleotide-binding sites, and histidines possibly involved in heme ligation. Overexpression of MOX1 in NIH 3T3 cells increased superoxide generation and cell growth. Cells expressing MOX1 had a transformed appearance, showed anchorage-independent growth, and produced tumors in athymic mice. Disruption of either Nox1 or Nox2 significantly delayed progression of motor neuron disease in these mice. However, 50% survival rates were enhanced significantly more by Nox2 deletion than Nox1 deletion.

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Overview

Product Name	Anti-NADPH oxidase 1 NOX1 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-NADPH oxidase 1 NOX1 Antibody catalog # PA1739. Tested in IHC, WB applications. This antibody reacts with Human. 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 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg 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	Q9Y5S8

Technical Details

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Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human NOX1.
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, Human Western blot, 0.1-0.5ug/ml, Human

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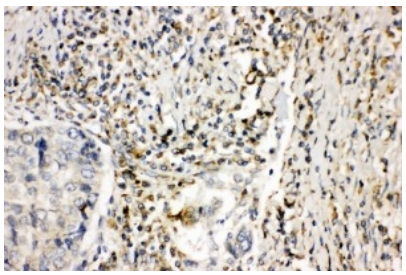
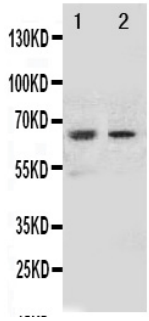
Anti-NADPH oxidase 1 NOX1 Antibody Picoband® (PA1739) Images



Anti-NOX1 antibody, PA1739, IHC(P)IHC(P): Human Lung Cancer Tissue



Anti-NOX1 antibody, PA1739, Western blottingAll lanes: Anti NOX1 (PA1739) at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: MCF-7 Whole Cell Lysate at 40ug Predicted bind size: 65KD Observed bind size: 65KD

3 Publications Citing This Product

1. PubMed ID: 25857968, Wang Y, Wang Y, Liu D, Wang W, Zhao H, Wang M, Yin H. Carbohydr Polym. 2015 Jul 10;125:135-45. Doi: 10.1016/J.Carbpol.2015.02.012. Epub 2015 Feb 19. Cordyceps Sinensis Polysaccharide Inhibits Pdgf-Bb-Induced Inflammation And Ros Production In Huma...

2. PubMed ID: 23668792, Gu Y, Gong Y, Zhang H, Dong X, Zhao T, Burczynski Fj, Wang G, Sun S, Zhu B, Han W, Wang H, Li P. Biochem Cell Biol. 2013 Jun;91(3):187-93. Doi: 10.1139/Bcb-2012-0087. Epub 2012 Dec 13. Regulation Of Transforming Growth Factor Beta 1 Gene Expressio...

3. PubMed ID: 29963902, Deficiency of NOX1 or NOX4 Prevents Liver Inflammation and Fibrosis in Mice through Inhibition of Hepatic Stellate Cell Activation

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