

Anti-NADPH oxidase 1 NOX1 Antibody

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.

Overview

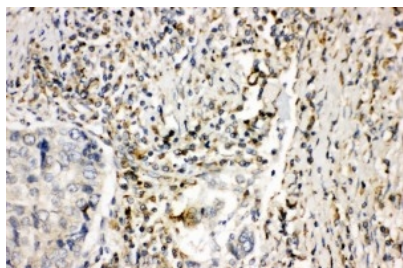
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| Product Name | Anti-NADPH oxidase 1 NOX1 Antibody |
| Reactive Species | Human |
| Description | Boster Bio Anti-NADPH oxidase 1 NOX1 Antibody catalog # PA1739. Tested in IHC, WB applications. This antibody reacts with Human. |
| Application | IHC, 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

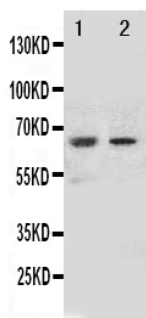
| | |
|-------------------------------|--|
| Immunogen | A synthetic peptide corresponding to a sequence in the middle region of human NOX1. |
| Predicted Reactive Species | Hamster |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western 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 |

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| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/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>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human</p> |

Anti-NADPH oxidase 1 NOX1 Antibody (PA1739) Images



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



Anti-NOX1 antibody, PA1739, Western blotting
All 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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