

## Anti-NADPH oxidase 1 NOX1 Antibody Picoband® APC Conjugated

Catalog Number: PA1739-APC

### 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

Product Name	Anti-NADPH oxidase 1 NOX1 Antibody Picoband® APC Conjugated
Reactive Species	Human
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	Q9Y5S8

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human NOX1.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	APC Excitation Wavelength: 633-647 nm Emission Wavelength: 660 nm

Suggested Dilutions

Flow Cytometry, Optimal dilutions should be determined by end users.

### 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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