Datasheet for ABIN7161010

anti-NADPH Oxidase 4 antibody (AA 210-424)

2 Images

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Overview

Quantity:	100 µg
Target:	NADPH Oxidase 4 (NOX4)
Binding Specificity:	AA 210-424
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NADPH Oxidase 4 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human NADPH oxidase 4 protein (210-424AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	NADPH Oxidase 4 (NOX4)
Alternative Name:	NOX4 (NOX4 Products)
Background:	Background: Constitutive NADPH oxidase which generates superoxide intracellularly upon formation of a complex with CYBA/p22phox. Regulates signaling cascades probably through

Target Details

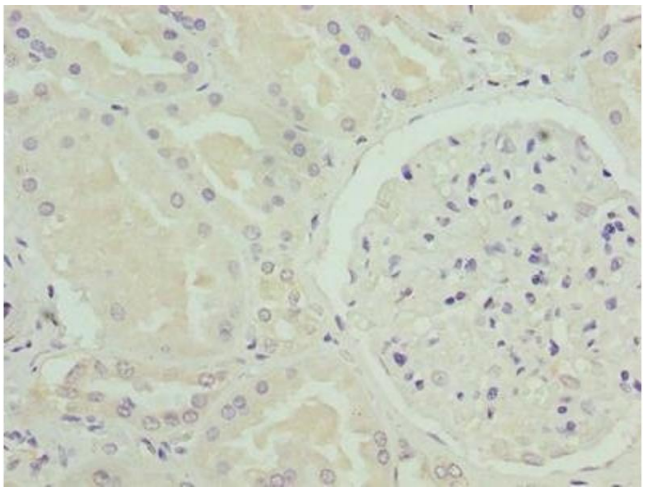
	phosphatases inhibition. May function as an oxygen sensor regulating the KCNK3/TASK-1 potassium channel and HIF1A activity. May regulate insulin signaling cascade. May play a role in apoptosis, bone resorption and lipolysaccharide-mediated activation of NFKB. May produce superoxide in the nucleus and play a role in regulating gene expression upon cell stimulation. Isoform 3 is not functional. Isoform 5 and isoform 6 display reduced activity. Aliases: Kidney oxidase 1 antibody, Kidney oxidase-1 antibody, Kidney superoxide producing NADPH oxidase antibody, Kidney superoxide-producing NADPH oxidase antibody, KOX 1 antibody, KOX antibody, Kox-1 antibody, KOX1 antibody, NADPH antibody, NADPH oxidase 4 antibody, Nox4 antibody, NOX4_HUMAN antibody, Renal NAD(P)H oxidase antibody, Renal NAD(P)H-oxidase antibody, RENOX antibody
UniProt:	Q9NPH5
Pathways:	Carbohydrate Homeostasis, Smooth Muscle Cell Migration

Application Details

Application Notes:	Recommended dilution: IHC:1:20-1:200, IF:1:50-1:200,
Restrictions:	For Research Use only

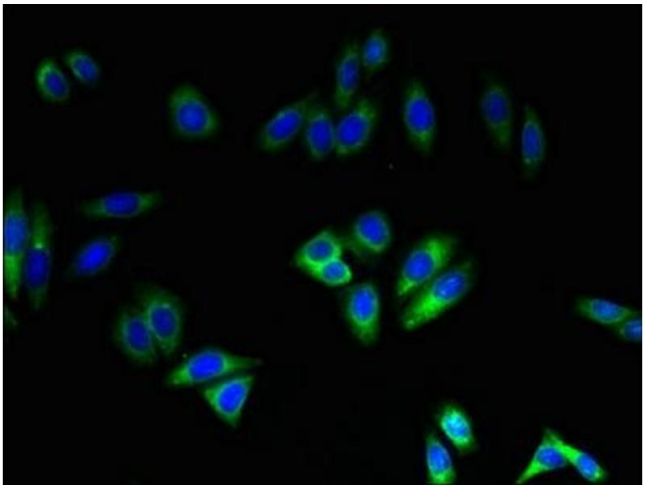
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human kidney tissue using ABIN7161010 at dilution of 1:100



Immunofluorescence

Image 2. Immunofluorescent analysis of HepG2 cells using ABIN7161010 at dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

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