

Datasheet for ABIN737526

anti-NADPH Oxidase 4 antibody (AA 81-180)[Go to Product page](#)**2** Images**3** Publications

Overview

Quantity:	100 µL
Target:	NADPH Oxidase 4 (NOX4)
Binding Specificity:	AA 81-180
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NADPH Oxidase 4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunoprecipitation (IP), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from mouse Nox-4
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Horse
Purification:	Purified by Protein A.

Target Details

Target:	NADPH Oxidase 4 (NOX4)
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Target Details

Alternative Name:	NADPH oxidase 4 (NOX4 Products)
Background:	<p>Synonyms: Al64821, NADPH oxidase 4, Kidney oxidase-1, KOX-1, Kidney superoxide-producing NADPH oxidase, Renal NAD(P)H-oxidase, Superoxide-generating NADPH oxidase 4, Nox4, Renox</p> <p>Background: Constitutive NADPH oxidase which generates superoxide intracellularly upon formation of a complex with CYBA/p22phox. Regulates signaling cascades probably through 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 lipopolysaccharide-mediated activation of NFKB.</p>
Gene ID:	50490
UniProt:	Q9JHI8
Pathways:	Carbohydrate Homeostasis , Smooth Muscle Cell Migration

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 IP(1-2 µg) ICC 1:100-500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

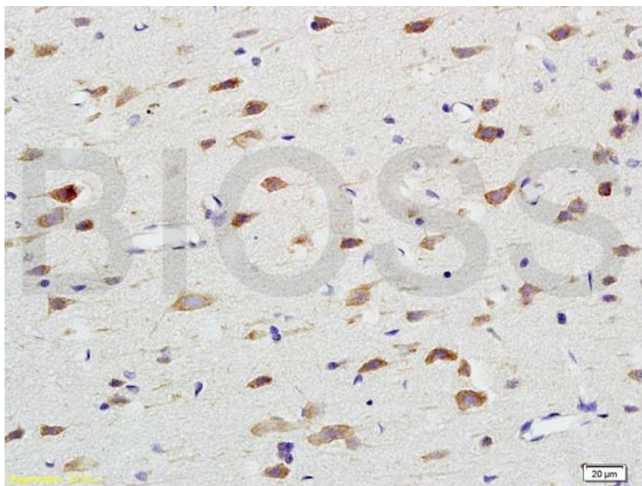
Handling

	handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

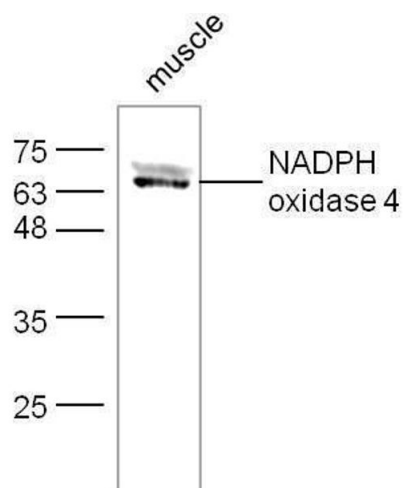
Product cited in:	Ulmasov, Bruno, Oshima, Cheng, Holly, Parise, Egan, Edwards: "CLIC1 null mice demonstrate a role for CLIC1 in macrophage superoxide production and tissue injury." in: Physiological reports , Vol. 5, Issue 5, (2017) (PubMed).
	Khan, Byer, Khan: "Exposure of Madin-Darby canine kidney (MDCK) cells to oxalate and calcium oxalate crystals activates nicotinamide adenine dinucleotide phosphate (NADPH)-oxidase." in: Urology , Vol. 83, Issue 2, pp. 510.e1-7, (2014) (PubMed).

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Anti-Nox4/NADH Polyclonal Antibody, Unconjugated (ABIN737526) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Western Blotting

Image 2. Mouse muscle lysates probed with Rabbit Anti-NADPH oxidase 4 Polyclonal Antibody, Unconjugated at 1:500 for 90 min at 37°C.