



Product name:	NOX4 Rabbit Polyclonal Antibody
Cat number:	AB-84210
Conjugate:	Unconjugated
Size:	100 ug
Clone:	POLY
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	A synthetic peptide of human NADPH oxidase 4
Reactivity:	Human, Mouse, Rat
Applications:	WB 1:500-1:2000, IHC 1:50-1:200, ICC/IF 1:100-1:200, FC 1:20-1:50 Notes for Western Blot: Add protease inhibitors during sample processing and lyse samples with dedicated membrane protein lysis buffer. Do not boil the samples at high temperature. All subsequent procedures following standard WB protocols would be fine.
Molecular Weight:	67kDa
Purification:	Affinity purification
Form:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol
Storage:	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Synonyms:	NADPH oxidase 4; Kidney oxidase-1; KOX-1; KOX1; Kidney superoxide-producing NADPH oxidase; Renal NAD(P)H-oxidase; NOX4; RENOX
Source:	Rabbit
Background:	The superoxide-generating NADPH oxidase includes a membrane-bound flavocytochrome containing two subunits, gp91-phox and p22-phox, and the cytosolic proteins p47-phox and p67-phox. During activation of the NADPH oxidase, p47-phox and p67-phox migrate to the plasma membrane where they associate with the flavocytochrome, cytochrome b558, to form the active enzyme complex. 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

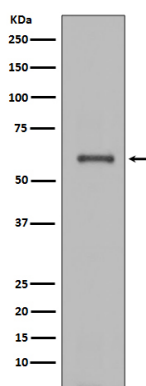
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and lipopolysaccharide-mediated activation of NF κ B. May produce superoxide in the nucleus and play a role in regulating gene expression upon cell stimulation. Isoform 3 is not functional. Isoform 5 and isoform 6 display reduced activity.



Western blot analysis of NOX4 expression in JAR cell lysate. Please find below information for reference.
Working dilution of the primary antibody 1: 1000 Working dilution of the Secondary antibody: 1: 8000 Samples of the experiments: Sample loading volume 25ul Chemiluminescent substrate: ECL West Pico Plus Notes for Western Blot: Add protease inhibitors during sample processing and lyse samples with dedicated membrane protein lysis buffer. Do not boil the samples at high temperature; All subsequent procedures following standard WB protocols would be fine.

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