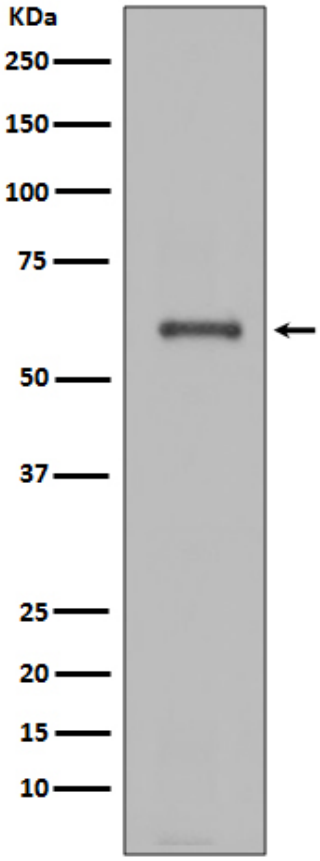
Product name:	NOX4 Rabbit Polyclonal Antibody
Cat number:	AB-84210
Conjugate:	Unconjugated
Size:	100 ug
Clone:	POLY
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	A synthetic peptide of human NADPH oxidase 4
Reactivity:	Human,Mouse,Rat
Applications:	WB 1:500-1:2000,IHC 1:50-1:200,ICC/IF 1:100-1:200,FC 1:20-1:50
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.
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 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.



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.