

Mouse Nicotinamide Adenine Dinucleotide Phosphate Oxidase 4 (NOX4) ELISA Kit | NOX4 elisa kit

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CATALOG # AAA135791	REACTIVITY Mouse
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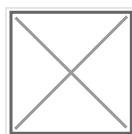
PRODUCT SYNONYMS

Nicotinamide Adenine Dinucleotide Phosphate Oxidase 4 (NOX4); Mouse Nicotinamide Adenine Dinucleotide Phosphate Oxidase 4 (NOX4) ELISA Kit; KOX; KOX-1; RENOX; NADPH Oxidase 4; NOX4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of NOX4. No significant cross-reactivity or interference between NOX4 and analogues was observed. Note: Limited by current skills and knowledge, it is impossible for us to complete the cross- reactivity detection between NOX4 and all the analogues, therefore, cross reaction may still exist.
Sequence Length	543
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.056ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level NOX4 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level NOX4 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for NOX4 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of NOX4 in mouse tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to NOX4. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to NOX4. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain NOX4, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of NOX4 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for NOX4 elisa kit	Signal transduction; Enzyme & Kinase; Metabolic pathway; Tumor immunity

NCBI AND UNIPROT INFORMATION

NCBI GI #	552953832
NCBI GeneID	50490
NCBI Accession #	NP_001272762.1
NCBI GenBank Nucleotide #	NM_001285833.1
UniProt Accession #	Q9JHI8; Q3TF39; Q8C3M1; Q8VCA3
Molecular Weight	71,244 Da
NCBI Official Full Name	NADPH oxidase 4 isoform 2
NCBI Official Synonym Full Names	NADPH oxidase 4
NCBI Official Symbol	Nox4
NCBI Official Synonym Symbols	AI648021
NCBI Protein Information	NADPH oxidase 4
UniProt Protein Name	NADPH oxidase 4
UniProt Gene Name	Nox4
UniProt Synonym Gene Names	Renox; KOX-1
UniProt Entry Name	NOX4_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.