

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

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CATALOG # AAA135797	REACTIVITY Rat
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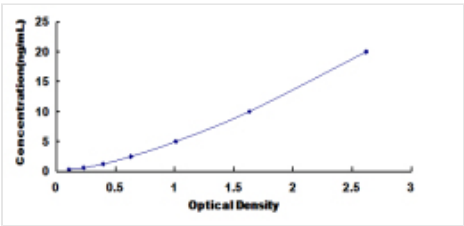
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Nicotinamide Adenine Dinucleotide Phosphate Oxidase 4 (NOX4). No significant cross-reactivity or interference between Nicotinamide Adenine Dinucleotide Phosphate Oxidase 4 (NOX4) and analogues was observed.
Sequence Length	543
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.117ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Nicotinamide Adenine Dinucleotide Phosphate Oxidase 4 (NOX4) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Nicotinamide Adenine Dinucleotide Phosphate Oxidase 4 (NOX4) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
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	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Nicotinamide Adenine Dinucleotide Phosphate Oxidase 4 (NOX4). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Nicotinamide Adenine Dinucleotide Phosphate Oxidase 4 (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 Nicotinamide Adenine Dinucleotide Phosphate Oxidase 4 (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 $\pm$ 10nm. The concentration of Nicotinamide Adenine Dinucleotide Phosphate Oxidase 4 (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.