Rat Nicotinamide Adenine Dinucleotide Phosphate Oxidase 1 (NOX1) ELISA Kit | NOX1 elisa kit

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CATALOG #	REACTIVITY
AAA183573	**Rat**

PRODUCT SYNONYMS

Nicotinamide Adenine Dinucleotide Phosphate Oxidase 1 (NOX1); Rat Nicotinamide Adenine Dinucleotide Phosphate Oxidase 1 (NOX1) ELISA Kit; MOX1; GP91-2; NOH1; NADPH Oxidase 1; Mitogenic Oxidase(Pyridine Nucleotide-Dependent Superoxide-Generating; NADH/NADPH mitogenic oxidase subunit P65-MOX; NOX1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Nicotinamide Adenine Dinucleotide Phosphate Oxidase 1 (NOX1). No significant cross-reactivity or interference between Nicotinamide Adenine Dinucleotide Phosphate Oxidase 1 (NOX1) and analogues was observed.
Sequence Length	563
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cell Lysates and Other Biological Fluids
Detection Range	1.56-100ng/mL
Sensitivity	< 0.56ng/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 1 (NOX1) 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 1 (NOX1) 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 NOX1 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 1 (NOX1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Nicotinamide Adenine Dinucleotide Phosphate Oxidase 1 (NOX1). 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 1 (NOX1), 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 Nicotinamide Adenine Dinucleotide Phosphate Oxidase 1 (NOX1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	16758500
NCBI GeneID	114243
NCBI Accession #	NP_446135.1
NCBI GenBank Nucleotide #	NM_053683.1
UniProt Accession #	Q9WV87
Molecular Weight	65,177 Da
NCBI Official Full Name	NADPH oxidase 1
NCBI Official Synonym Full Names	NADPH oxidase 1
NCBI Official Symbol	Nox1
NCBI Protein Information	NADPH oxidase 1
UniProt Protein Name	NADPH oxidase 1
UniProt Gene Name	**Nox1**
UniProt Synonym Gene Names	Mox1; Noh1; NOX-1; MOX-1

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/rat-elisa-kits/nicotinamide-adenine-dinucleotide-phosphate-oxidase-1-nox1/183573