

Rat NQO1 (NAD (P)H dehydrogenase [quinone] 1) ELISA Kit | NQO1 elisa kit

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CATALOG #
AAA248535

REACTIVITY
Rat

PRODUCT SYNONYMS

NQO1 (NAD (P)H dehydrogenase [quinone] 1); Rat NQO1 (NAD (P)H dehydrogenase [quinone] 1) ELISA Kit; NAD; P)H dehydrogenase [quinone] 1; NQO1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
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.
Sequence Length	274
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	46.875-3000pg/ml
Sensitivity	28.125pg/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<8%
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<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a NQO1 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	pg/ml	0	46.875	93.75	187.5	375	750	1500	3000
Y	OD450	0.129	0.312	0.495	0.723	1.165	1.632	1.919	2.292

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for NQO1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-NOX4 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-NOX4 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the NOX4 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of NOX4 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505415
NCBI GeneID	1728
NCBI Accession #	NP_000894.1
NCBI GenBank Nucleotide #	NM_000903.2
UniProt Accession #	P15559; Q86UK1; B2R5Y9; B4DNM7; B7ZAD1
Molecular Weight	26,365 Da
NCBI Official Full Name	NAD(P)H dehydrogenase
NCBI Official Synonym Full Names	NAD(P)H quinone dehydrogenase 1
NCBI Official Symbol	NQO1
NCBI Official Synonym Symbols	DTD; QR1; DHQU; DIA4; NMOR1; NMORI
NCBI Protein Information	NAD(P)H dehydrogenase [quinone] 1
UniProt Protein Name	NAD(P)H dehydrogenase [quinone] 1
UniProt Gene Name	NQO1
UniProt Synonym Gene Names	DIA4; NMOR1; DTD; QR1

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.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/nqo1-nad-p-h-dehydrogenase-quinone-1/248535>