

Rat Dual Oxidase 2 (DUOX2) ELISA Kit | DUOX2 elisa kit

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CATALOG #
AAA135604

REACTIVITY
Rat

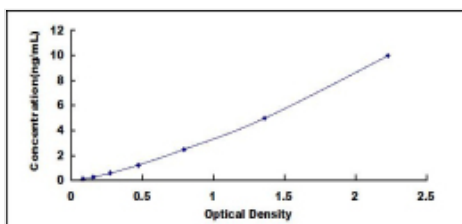
PRODUCT SYNONYMS

Dual Oxidase 2 (DUOX2); Rat Dual Oxidase 2 (DUOX2) ELISA Kit; LNOX2; NOXEF2; THOX2; Thyroid oxidase 2; NADH/NADPH thyroid oxidase p138-tox; Dual Oxidase-Like Domains 2; Nicotinamide Adenine Dinucleotide Phosphate Oxidase; DUOX2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Dual Oxidase 2 (DUOX2). No significant cross-reactivity or interference between Dual Oxidase 2 (DUOX2) and analogues was observed.
Sequence Length	1548
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.063ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Dual Oxidase 2 (DUOX2) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Dual Oxidase 2 (DUOX2) 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 DUOX2 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 Dual Oxidase 2 (DUOX2). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Dual Oxidase 2 (DUOX2). 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 Dual Oxidase 2 (DUOX2), 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 Dual Oxidase 2 (DUOX2) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for DUOX2 elisa kit	Enzyme & Kinase; Endocrinology; Hormone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	119597694
NCBI GeneID	50506
UniProt Accession #	Q9NRD8; Q9NR02; Q9UHF9; A8MQ13; D2XI64
Molecular Weight	175,364 Da
NCBI Official Full Name	dual oxidase 2
NCBI Official Synonym Full Names	dual oxidase 2
NCBI Official Symbol	DUOX2
NCBI Official Synonym Symbols	TDH6; LNOX2; THOX2; NOXEF2; P138-TOX
NCBI Protein Information	dual oxidase 2
UniProt Protein Name	Dual oxidase 2
UniProt Gene Name	DUOX2
UniProt Synonym Gene Names	LNOX2; THOX2
UniProt Entry Name	DUOX2_HUMAN

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/dual-oxidase-2-duox2/135604>