

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

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CATALOG #
AAA65665

REACTIVITY
Rat

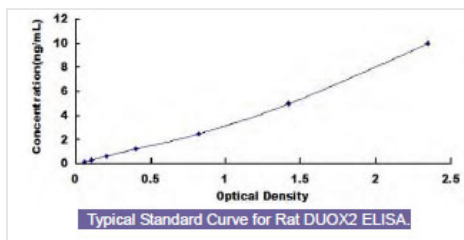
PRODUCT SYNONYMS

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 DUOX2. No significant cross-reactivity or interference between DUOX2 and analogues was observed.
Sequence Length	456
Samples	Serum, plasma, tissue homogenates and other biological fluids.
Assay Type	Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	0.058ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level DUOX2 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 DUOX2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for DUOX2 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of DUOX2 in rat serum, plasma, tissue homogenates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to DUOX2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to 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 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 DUOX2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	13162322
NCBI GeneID	79107
NCBI Accession #	NP_077055.1
NCBI GenBank Nucleotide #	NM_024141.1
UniProt Accession #	Q9ES45; Q811Y4
Molecular Weight	52,576 Da
NCBI Official Full Name	dual oxidase 2
NCBI Official Synonym Full Names	dual oxidase 2
NCBI Official Symbol	Duox2
NCBI Official Synonym Symbols	Thox2
NCBI Protein Information	dual oxidase 2
UniProt Protein Name	Dual oxidase 2
UniProt Gene Name	Duox2
UniProt Synonym Gene Names	Lnox2; Thox2

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.