

Rat Thioredoxin 2, Mitochondrial (TXN2) ELISA Kit | TXN2 elisa kit

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CATALOG #
AAA188221

REACTIVITY
Rat

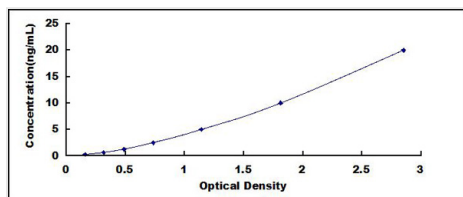
PRODUCT SYNONYMS

Thioredoxin 2; Mitochondrial (TXN2); Rat Thioredoxin 2; Mitochondrial (TXN2) ELISA Kit; MT-TRX; TRX2; MTRX; TXN2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Thioredoxin 2, Mitochondrial (TXN2). No significant cross-reactivity or interference between Thioredoxin 2, Mitochondrial (TXN2) and analogues was observed.
Sequence Length	166
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cell Lysates and Other Biological Fluids
Detection Range	0.312-20ng/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 0.113ng/mL
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Thioredoxin 2, Mitochondrial (TXN2) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Thioredoxin 2, Mitochondrial (TXN2) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = SD/mean \times 100$ 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 TXN2 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 Thioredoxin 2, Mitochondrial (TXN2). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Thioredoxin 2, Mitochondrial (TXN2). 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 Thioredoxin 2, Mitochondrial (TXN2), 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 Thioredoxin 2, Mitochondrial (TXN2) 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 #	21361403
NCBI GeneID	25828
NCBI GenBank Nucleotide #	NP_036605.2
UniProt Accession #	Q99757
NCBI Official Full Name	thioredoxin, mitochondrial
NCBI Official Synonym Full Names	thioredoxin 2
NCBI Official Symbol	TXN2
NCBI Official Synonym Symbols	TXN; MTRX; TRX2; MT-TRX; COXPD29
NCBI Protein Information	thioredoxin, mitochondrial
UniProt Protein Name	Thioredoxin, mitochondrial
UniProt Gene Name	TXN2
UniProt Synonym Gene Names	TRX2; MTRX; Mt-Trx
UniProt Entry Name	THIOM_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/thioredoxin-2-mitochondrial-txn2/188221>