

Rat Thioredoxin Reductase 1 ELISA Kit | TrxR1 elisa kit

Rat Thioredoxin Reductase 1 (TrxR1) ELISA Kit

CATALOG #
AAA145504

REACTIVITY
Rat

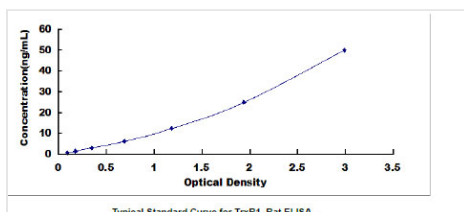
PRODUCT SYNONYMS

Thioredoxin Reductase 1; Rat Thioredoxin Reductase 1 (TrxR1) ELISA Kit; TXNRD1; TR1; GRIM12; KDRF; TRXR-1; TXNR; Gene associated with retinoic and interferon-induced mortality 12 protein; KM-102-derived reductase-like factor; TrxR1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Thioredoxin Reductase 1 (TrxR1). No significant cross-reactivity or interference between Thioredoxin Reductase 1 (TrxR1) and analogues was observed.
Sequence Length	647
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates and other biological fluids
Detection Range	0.78-50ng/mL
Sensitivity	0.31ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Thioredoxin Reductase 1 (TrxR1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Thioredoxin Reductase 1 (TrxR1) 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 TrxR1 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 Reductase 1 (TrxR1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Thioredoxin Reductase 1 (TrxR1). 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 Reductase 1 (TrxR1), 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 Reductase 1 (TrxR1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for TrxR1 elisa kit	Signal transduction; Enzyme & Kinase; Metabolic pathway

NCBI AND UNIPROT INFORMATION

NCBI GI #	37542493
NCBI GeneID	7296
Molecular Weight	50,873 Da
NCBI Official Full Name	thioredoxin reductase 1
NCBI Official Synonym Full Names	thioredoxin reductase 1
NCBI Official Symbol	TXNRD1
NCBI Official Synonym Symbols	TR; TR1; TXNR; TRXR1; GRIM-12
NCBI Protein Information	thioredoxin reductase 1, cytoplasmic
UniProt Protein Name	Thioredoxin reductase 1, cytoplasmic
UniProt Gene Name	TXNRD1
UniProt Synonym Gene Names	GRIM12; KDRF; TR; GRIM-12; Gene associated with retinoic and IFN-induced mortality 12 protein
UniProt Entry Name	TRXR1_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.