

Human Thioredoxin Reductase 1 (TrxR1) ELISA Kit | TrxR1 elisa kit

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CATALOG #
AAA183834

REACTIVITY
Human

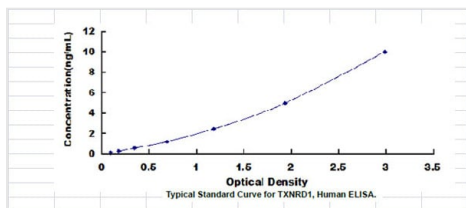
PRODUCT SYNONYMS

Thioredoxin Reductase 1 (TrxR1); Human 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	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of TXNRD1. No significant cross-reactivity or interference between TXNRD1 and analogues was observed.
Sequence Length	647
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	< 0.054ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TXNRD1 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 TXNRD1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. 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	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of TXNRD1 in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to TXNRD1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to TXNRD1. 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 TXNRD1, 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 TXNRD1 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 #	37542493
NCBI GeneID	7296
UniProt Accession #	Q16881; Q6FI31; Q6VB40; Q6VB41; Q6VB42; Q6VBP2; Q6VBP3; B7Z1F4; B7Z3Y8; B7Z904; E9PMY9; F5H780
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

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.