

Human Thioredoxin Reductase 1 (TXNRD1) CLIA Kit | TXNRD1 clia kit

Human Thioredoxin Reductase 1 (TXNRD1) CLIA Kit

CATALOG # AAA188969	REACTIVITY Human	APPLICATIONS CLIA (Chemiluminescence Immunoassay)
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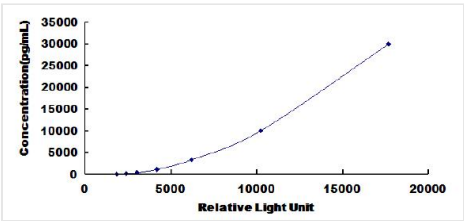
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Thioredoxin Reductase 1 (TXNRD1). No significant cross-reactivity or interference between Thioredoxin Reductase 1 (TXNRD1) and analogues was observed.
Sequence Length	649
Assay Type	Double-antibody Sandwich
Samples	Serum, plasma and other biological fluids
Detection Range	41.2-30,000pg/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 12.5pg/mL
Applicable Applications for TXNRD1 clia kit	CLIA (Chemiluminescence Immunoassay)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Thioredoxin Reductase 1 (TXNRD1) 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 (TXNRD1) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%
Test Principle	The microplate provided in this kit has been pre-coated with an antibody specific to Thioredoxin Reductase 1 (TXNRD1). Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Thioredoxin Reductase 1 (TXNRD1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the Thioredoxin Reductase 1 (TXNRD1) level in the sample or standard.
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	172046253
NCBI GeneID	7296
UniProt Accession #	Q16881
NCBI Official Full Name	Thioredoxin reductase 1, cytoplasmic
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.

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Online datasheet: <https://stage.aaabiotech.com/human-clia-kits/thioredoxin-reductase-1-txnrd1/188969>