

Mouse Thioredoxin reductas (TRXR) ELISA Kit | TRXR elisa kit

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CATALOG #
AAA332058

REACTIVITY
Mouse

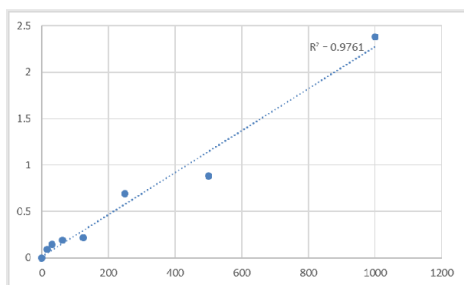
PRODUCT SYNONYMS

Thioredoxin reductas (TRXR); Mouse Thioredoxin reductas (TRXR) ELISA Kit; TXNRD1; GRIM-12; MGC9145; TR; TR1; TRXR1; TXNR; KM-102-derived reductase-like factor; oxidoreductase; thioredoxin reductase GRIM-12; TRXR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Mouse Thioredoxin reductas (TRXR) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse TXNRD1. No significant cross-reactivity or interference between Mouse TXNRD1 and analogues was observed.
Sequence Length	499
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Mouse Thioredoxin reductas (TRXR) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TRXR elisa kit	Description: This Mouse Thioredoxin reductas (TRXR) ELISA Kit employs a two-site sandwich ELISA to quantitate TXNRD1 in samples. An antibody specific for TXNRD1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TXNRD1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TXNRD1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TXNRD1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Thioredoxin reductase 1, cytoplasmic is a member of the family of pyridine nucleotide oxidoreductases. This protein reduces thioredoxins as well as other substrates, and plays a role in selenium metabolism and protection against oxidative stress. The functional enzyme is thought to be a homodimer which uses FAD as a cofactor. Each subunit contains a selenocysteine (Sec) residue which is required for catalytic activity. The selenocysteine is encoded by the UGA codon that normally signals translation termination. The 3' UTR of selenocysteine-containing genes have a common stem-loop structure, the sec insertion sequence (SECIS), that is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. Alternative splicing results in several transcript variants encoding the same or different isoforms.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	110224442
NCBI GeneID	50493
NCBI Accession #	NP_001035978.1
NCBI GenBank Nucleotide #	NP_001035978.1
UniProt Accession #	Q9JMH6
NCBI Official Full Name	thioredoxin reductase 1, cytoplasmic isoform 1
NCBI Official Synonym Full Names	thioredoxin reductase 1
NCBI Official Symbol	Txnrd1
NCBI Official Synonym Symbols	TR; TR1; TrxR1
NCBI Protein Information	thioredoxin reductase 1, cytoplasmic
UniProt Protein Name	Thioredoxin reductase 1, cytoplasmic
UniProt Gene Name	Txnrd1
UniProt Synonym Gene Names	Trxr1; TR
UniProt Entry Name	TRXR1_MOUSE

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.