

Human Thioredoxin Reductase 2, Mitochondrial (TXNRD2) ELISA Kit | TXNRD2 elisa kit

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CATALOG #
AAA330335

REACTIVITY
Human

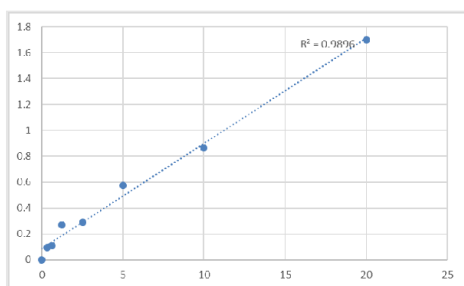
PRODUCT SYNONYMS

Thioredoxin Reductase 2; Mitochondrial (TXNRD2); Human Thioredoxin Reductase 2; Mitochondrial (TXNRD2) ELISA Kit; TXNRD2; SELZ; TR; TR-BETA; TR3; TRXR2; OTTHUMP00000195708; selenoprotein Z; thioredoxin reductase 3; thioredoxin reductase beta; TXNRD2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Thioredoxin reductase 2, mitochondrial (TXNRD2) ELISA Kit has high sensitivity and excellent specificity for detection of Human TXNRD2. No significant cross-reactivity or interference between Human TXNRD2 and analogues was observed.
Sequence Length	524
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. Human Thioredoxin reductase 2, mitochondrial (TXNRD2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TXNRD2 elisa kit	Description: This Human Thioredoxin reductase 2, mitochondrial (TXNRD2) ELISA Kit employs a two-site sandwich ELISA to quantitate TXNRD2 in samples. An antibody specific for TXNRD2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TXNRD2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TXNRD2 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 TXNRD2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Thioredoxin reductase (TR) is a dimeric NADPH-dependent FAD containing enzyme that catalyzes the reduction of the active site disulfide of thioredoxin and other substrates. TR is a member of a family of pyridine nucleotide-disulfide oxidoreductases and is a key enzyme in the regulation of the intracellular redox environment. Three thioredoxin reductase genes have been found that encode selenocysteine containing proteins. TrxR2 partially overlaps the COMT gene on chromosome 22. Highly expressed in the prostate, ovary, liver, testis, uterus, colon and small intestine. Intermediate levels in brain, skeletal muscle, heart and spleen. Low levels in placenta, pancreas, thymus and peripheral blood leukocytes.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	22035672
NCBI GeneID	10587
NCBI Accession #	NP_006431.2
NCBI GenBank Nucleotide #	NP_006431.2
UniProt Accession #	Q9NNW7
NCBI Official Full Name	thioredoxin reductase 2, mitochondrial isoform 1
NCBI Official Synonym Full Names	thioredoxin reductase 2
NCBI Official Symbol	TXNRD2
NCBI Official Synonym Symbols	TR; TR3; SELZ; GCCD5; TRXR2; TR-BETA
NCBI Protein Information	thioredoxin reductase 2, mitochondrial
UniProt Protein Name	Thioredoxin reductase 2, mitochondrial
UniProt Gene Name	TXNRD2
UniProt Synonym Gene Names	KIAA1652; TRXR2; SelZ
UniProt Entry Name	TRXR2_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.