

Human Thioredoxin reductase ELISA Kit | TrxR elisa kit

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CATALOG #
AAA95221

REACTIVITY
Human

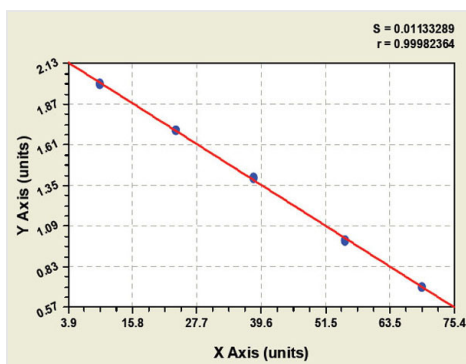
PRODUCT SYNONYMS

Thioredoxin reductase; Human Thioredoxin reductase ELISA Kit; TrxR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Sensitivity	1.0 ng/mL.
Intended Uses	This TrxR ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human TrxR. This ELISA kit for research use only, not for therapeutic applications
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TrxR elisa kit

Principle of the Assay: TrxR ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-TrxR antibody and an TrxR-HRP conjugate. The assay sample and buffer are incubated together with TrxR-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the TrxR concentration since TrxR from samples and TrxR-HRP conjugate compete for the anti-TrxR antibody binding site. Since the number of sites is limited, as more sites are occupied by TrxR from the sample, fewer sites are left to bind TrxR-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The TrxR concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5360756
NCBI GeneID	282389
Molecular Weight	54,670 Da
NCBI Official Full Name	thioredoxin reductase
NCBI Official Symbol	TXNRD2
NCBI Protein Information	thioredoxin reductase 2, mitochondrial; thioredoxin reductase TR3
UniProt Protein Name	Thioredoxin reductase 2, mitochondrial
UniProt Gene Name	TXNRD2
UniProt Synonym Gene Names	TRXR2
UniProt Entry Name	TRXR2_BOVIN

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/trxr-human-elisa-kits/thioredoxin-reductase/95221>