

Human Thioredoxin ELISA Kit | TXN elisa kit

Human Thioredoxin PicoKine ELISA Kit

CATALOG #
AAA45986

REACTIVITY
Human

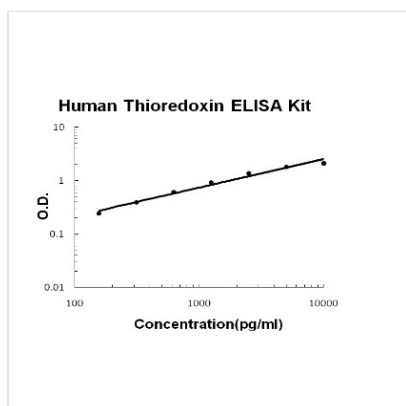
PRODUCT SYNONYMS

Thioredoxin; Human Thioredoxin PicoKine ELISA Kit; thioredoxin; ADF; ATL-derived factor; DKFZp686B1993; MGC61975; SASP; Surface associated sulphhydryl protein; Surface-associated sulphhydryl protein; THIO_HUMAN; TRDX; TRX 1; Trx; TRX1; TXN; TXN protein; TXN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human Thioredoxin
Sequence Length	105
Samples	Cell culture supernates, serum and plasma (heparin)
Assay Type	Sandwich
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human Thioredoxin PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for TXN elisa kit	Principle of the assay: human Thioredoxin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Thioredoxin has been precoated onto 96-well plates. Standards(E.coli, V2-V105) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Thioredoxin is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human Thioredoxin amount of sample captured in plate. Background: Thioredoxin is a class of small redox proteins known to be present in all organisms. It is mapped to 9q31.3. Thioredoxins are proteins that act as antioxidants by facilitating the reduction of other proteins by cysteine thiol-disulfide exchange. They can also act as electron donors to peroxidases and ribonucleotide reductase. Thioredoxin is a 12-kD oxidoreductase enzyme containing a dithiol-disulfide active site. It plays a role in many important biological processes, including redox signaling. This gene also plays a central role in humans and is increasingly linked to medicine through their response to reactive oxygen species (ROS). VDUP1 is a key stress-responsive inhibitor of Thioredoxin activity in cardiomyocytes.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	135773
NCBI GeneID	7295
UniProt Accession #	P10599; O60744; Q53X69; Q96KI3; Q9UDG5; B1ALW1
Molecular Weight	9,452 Da
NCBI Official Full Name	Thioredoxin
NCBI Official Synonym Full Names	thioredoxin
NCBI Official Symbol	TXN
NCBI Official Synonym Symbols	TRX; TRDX; TRX1
NCBI Protein Information	thioredoxin; ADF; SASP; TXN delta 3; ATL-derived factor; thioredoxin delta 3; surface-associated sulphydryl protein
UniProt Protein Name	Thioredoxin
UniProt Gene Name	TXN
UniProt Synonym Gene Names	TRDX; TRX; TRX1; Trx; ADF; SASP
UniProt Entry Name	THIO_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/txn-human-elisa-kits/thioredoxin/45986>