Thioredoxin (TRX) ELISA Kit for Chicken

PRODUCT OVERVIEW

Product Name	Thioredoxin (TRX), ELISA Kit
Full Product Name	Chicken Thioredoxin ELISA Kit
Product Gene Name	TRX elisa kit
Species Reactivity	Chicken
Assay Type	Quantitative Sandwich
Detection Range	3.12ng/ml-100ng/ml
Sensitivity	1.0ng/ml
Preparation and Storage	Store all reagents at 2-8 degree C
Inter-assay Precision	Inter-assay CV (%) is less than 15%. [CV(%) = SD/mean ×100]. All CV% should be compared by concentration, not compared by OD values.
Intra-assay Precision	Intra-assay CV (%) is less than 15%.
Molecular Weight	11,675 Da
Chromosome Location	Chromosome: 4; NC_000070.6 (57943373..57956411, complement). Location: 4 B3; 4 31.87 cM
3D Structure	ModBase 3D Structure for P10639
Related Product Information for TRX elisa kit	Background: This Quantitative Sandwich ELISA kit is for lab reagent/research use only, not for drug, household, therapeutic or test applications! This kit is intended to be used to determine the level of TRX (hereafter termed "analyte") in undiluted original Chicken serum, plasma or tissue homogenates samples. For other sample types please contact tech support to determine compatibility with this assay. This kit is not suitable for assaying non-biological sources of substances.
Other Notes	Small volumes of TRX elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TRX purchase	MBS030172 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Thioredoxin (TRX) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing TRX. The ELISA analytical biochemical technique of the MBS030172 kit is based on TRX antibody-TRX antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect TRX antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, TRX. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRX. It may not necessarily be applicable to this product.

NCBI GI #	6755911
NCBI GeneID	22166
NCBI Accession #	NP_035790.1
UniProt Primary Accession #	P10639
UniProt Secondary Accession #	Q52KC4; Q9D8R0

UniProt Related Accession #	P10639
GenBank Nucleotide #	NM_011660.3
NCBI Official Full Name	thioredoxin
NCBI Official Synonym Full Names	thioredoxin 1
NCBI Official Symbol	Txn1
NCBI Official Synonym Symbols	ADF; Txn; Trx1; AW550880
UniProt Protein Name	Thioredoxin
UniProt Synonym Protein Names	ATL-derived factor
Protein Family	Histone-lysine N-methyltransferase
UniProt Gene Name	Txn
UniProt Synonym Gene Names	Txn1; Trx; ADF
UniProt Entry Name	THIO_MOUSE
NCBI Protein Information	thioredoxin; trx; ATL-derived factor
UniProt Comments for TRX	TXN: Participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyzes dithiol-disulfide exchange reactions. Plays a role in the reversible S-nitrosylation of cysteine residues in target proteins, and thereby contributes to the response to intracellular nitric oxide. Nitrosylates the active site Cys of CASP3 in response to nitric oxide (NO), and thereby inhibits caspase-3 activity. Induces the FOS/JUN AP-1 DNA-binding activity in ionizing radiation (IR) cells through its oxidation/reduction status and stimulates AP-1 transcriptional activity. Homodimer; disulfide-linked. Interacts with TXNIP through the redox-active site. Interacts with MAP3K5 and CASP3. In case of infection, interacts with S.typhimurium protein slrP. Interacts with APEX1; the interaction stimulates the FOS/JUN AP-1 DNA- binding activity in a redox-dependent manner. Up-regulated by ionizing radiation. Belongs to the thioredoxin family. Protein type: Nuclear receptor co-regulator Cellular Component: mitochondrion; cell soma; axon; dendrite; cytoplasm; extracellular region; nucleus; cytosol Molecular Function: protein binding; enzyme binding; protein disulfide oxidoreductase activity; peptide disulfide oxidoreductase activity; oxidoreductase activity, acting on sulfur group of donors, disulfide as acceptor Biological Process: response to radiation; sulfate assimilation; negative regulation of protein export from nucleus; regulation of transcription, DNA-dependent; protein folding; transcription, DNA-dependent; cell redox homeostasis; transport; regulation of protein import into nucleus, translocation; negative regulation of transcription from RNA polymerase II promoter; positive regulation of peptidyl-serine phosphorylation; glycerol ether metabolic process; positive regulation of DNA binding
Research Articles on TRX	**1.** This study identifies Trx-1 as a novel interaction partner of the ADAM17 cytoplasmic domain.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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