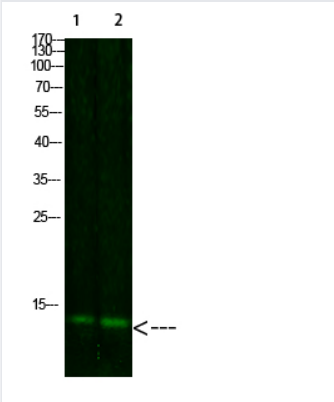
Thioredoxin (TXN) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Thioredoxin (TXN), Polyclonal Antibody
Full Product Name	Thioredoxin Polyclonal Antibody
Product Gene Name	anti-TXN antibody
Product Synonym Names	Thioredoxin (Trx) (ATL-derived factor) (ADF) (Surface-associated sulphydryl protein) (SASP); Thioredoxin
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	This antibody detects endogenous levels of Thioredoxin
Preparation and Storage	Store at -20 degree C
Molecular Weight	12 kDa
OMIM	J04026 mRNA
3D Structure	ModBase 3D Structure for P10599
Immunogen	Synthesized peptide derived from human Thioredoxin. at AA range: 52-101
Immunogen Type	Protein
Product Categories/Family for anti-TXN antibody	Total protein Ab
Applications Tested/Suitable for anti-TXN antibody	Western Blot (WB)
Application Notes for anti-TXN antibody	WB: 1:500-1:2000
Related Product Information for anti-TXN antibody	MBS9419877 is an antibody targeting TXN. Also known as Thioredoxin Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-TXN antibody 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.



Western Blot (WB) of anti-TXN antibody
Western Blot analysis of 1, mouse-liver 2, hela cells using primary antibody diluted at 1:1000 (degree C overnight). Secondary antibody£ºGoat Anti-rabbit IgG IRDye 800 (diluted at 1:5000, 25¡£C, 1 hour)

ADDITIONAL DETAILS

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

NCBI GI #	349732256
NCBI GeneID	7295
NCBI Accession #	NP_001231867.1
UniProt Primary Accession #	P10599
UniProt Secondary Accession #	O60744; Q53X69; Q96KI3; Q9UDG5; B1ALW1
UniProt Related Accession #	P10599
GenBank Nucleotide #	NM_001244938.1
NCBI Official Full Name	thioredoxin isoform 2
NCBI Official Synonym Full Names	thioredoxin
NCBI Official Symbol	TXN
NCBI Official Synonym Symbols	TRX; TRDX; TRX1
UniProt Protein Name	Thioredoxin
UniProt Synonym Protein Names	ATL-derived factor; ADF; Surface-associated sulphydryl protein; SASP
Protein Family	Thioredoxin
UniProt Gene Name	TXN
UniProt Synonym Gene Names	TRDX; TRX; TRX1; Trx; ADF; SASP
NCBI Protein Information	thioredoxin
NCBI Summary for TXN	The protein encoded by this gene acts as a homodimer and is involved in many redox reactions. The encoded protein is active in the reversible S-nitrosylation of cysteines in certain proteins, which is part of the response to intracellular nitric oxide. This protein is found in the cytoplasm. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

UniProt Comments for TXN	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 Chromosomal Location of Human Ortholog: 9q31.3 Cellular Component: cytoplasm; cytosol; nucleus Molecular Function: oxidoreductase activity, acting on sulfur group of donors, disulfide as acceptor; protein binding; protein disulfide oxidoreductase activity; protein-disulfide reductase activity; RNA binding; thioredoxin-disulfide reductase activity Biological Process: activation of protein kinase B; cell motility; cell proliferation; cell redox homeostasis; cell-cell signaling; nucleobase, nucleoside and nucleotide interconversion; positive regulation of DNA binding; positive regulation of peptidyl-serine phosphorylation; positive regulation of protein kinase B signaling cascade; protein repair; regulation of protein import into nucleus, translocation; response to radiation; signal transduction
Research Articles on TXN	**1.** from the two catalytic cysteines of TRX1 the residue C32 is responsible for the high-affinity binding of TRX1 to the ASK1-TRX-binding domain in reducing conditions
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