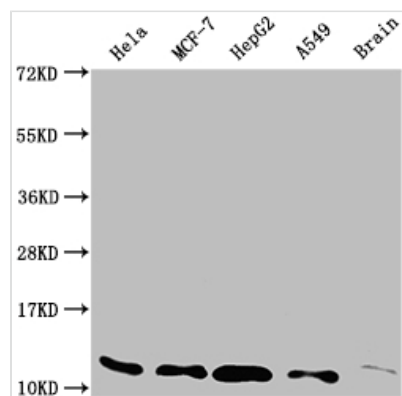




# TXN Antibody

<b>Product Code</b>	CSB-RA977675A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P10599
<b>Immunogen</b>	A synthesized peptide derived from human TRX1
<b>Species Reactivity</b>	Human, Rat
<b>Tested Applications</b>	ELISA, WB; Recommended dilution: WB:1:500-1:5000
<b>Relevance</b>	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.
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Metabolism; Signal transduction
<b>Gene Names</b>	TXN
<b>Accession NO.</b>	3G7

## Image



### Western Blot

Positive WB detected in: HeLa whole cell lysate, MCF-7 whole cell lysate, HepG2 whole cell lysate, A549 whole cell lysate, Rat brain tissue  
All lanes: TXN antibody at 1:2000

### Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution  
Predicted band size: 10, 12 kDa  
Observed band size: 12 kDa



## Description

TXN is a tiny oxidoreductase protein that is widely expressed in all organisms and is induced by inflammation. In a number of situations, it acts as a cytoprotector against various oxidative stressors. TXN is engaged in a wide spectrum of physiological cellular responses and operates both intracellularly and extracellularly. TXN reduces oxidative stress by scavenging reactive oxygen species (ROS), modulates a number of redox-sensitive and ROS-independent signaling pathways, and has cytoprotective effects inside the cell. TRX serves as a growth factor or cytokine outside the cell, promoting cell proliferation and a variety of other biological responses. TXN has also been linked to the development of tumors. TXN is a proto-oncogene that is overexpressed in a variety of malignancies and is linked to a bad prognosis. TXN is a proto-oncogene that is overexpressed in a variety of malignancies and is linked to a bad prognosis.

The production of this recombinant TXN antibody started with identifying and cloning the genes for antibody expression. After the TXN antibody was cloned into an expression plasmid, the plasmid could be introduced into the mammalian cell to produce the target recombinant antibody. This recombinant TXN antibody has been validated in ELISA, WB.