

Rabbit anti-Mouse Thioredoxin/TRX Polyclonal Antibody | anti-TXN antibody

Anti-Thioredoxin/TRX Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257233	Rabbit	Mouse	Immunofluorescence, Immunocytochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

Thioredoxin/TRX; Polyclonal Antibody; Anti-Thioredoxin/TRX Antibody; Rabbit Polyclonal; Thioredoxin/TXN/SASP Antibody; Rabbit PAb; Antigen Affinity Purified; thioredoxin; Anti-Txn Antibody; Anti-Txn1 Antibody; anti-TXN antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse Thioredoxin/TXN/SASP
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-TXN antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Mouse Thioredoxin/TXN/SASP Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse Thioredoxin/TXN/SASP (rM Thioredoxin/TXN/SASP). Thioredoxin/TXN/SASP specific IgG was purified by Mouse Thioredoxin/TXN/SASP affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of TXN in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-mouse TXN polyclonal antibody (1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to cytoplasm and nucleus.



WB (Western Blot)

Anti-TXN rabbit polyclonal antibody at 1:500 dilution Lane A: HL60 Whole Cell Lysate Lane B: Hela Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 12 kDa Observed band size: 12 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-TXN antibody	Thioredoxin, also known as ATL-derived factor, Surface-associated sulphhydryl protein, SASP and TXN, is a nucleus, cytoplasm and secreted protein that belongs to the thioredoxin family. Thioredoxins are proteins that act as antioxidants by facilitating the reduction of other proteins by cysteine thiol-disulfide exchange. Thioredoxins are found in nearly all known organisms and are essential for life in mammals. Thioredoxin/TXN participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyzes dithiol-disulfide exchange reactions. Thioredoxin/TXN plays a role in the reversible S-nitrosylation of cysteine residues in target proteins, and thereby contributes to the response to intracellular nitric oxide. Thioredoxin/TXN nitrosylates the active site Cys of CASP3 in response to nitric oxide (NO), and thereby inhibits caspase-3 activity. Thioredoxin/TXN 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.
References	Holmgren A, et al., 1989, J Biol Chem 264 (24): 13963-6. Nordberg J, et al., 2001, Free Radic Biol Med31 (11): 1287-312. Mustacich D, et al., 2000, Biochem J 346 (Pt 1): 1-8. Mitchell D.A., et al., 2005, Nat. Chem. Biol. 1:154-158.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6755911
NCBI GeneID	22166
NCBI Accession #	NP_035790.1
NCBI GenBank Nucleotide #	NM_011660.3
UniProt Accession #	P10639; Q52KC4; Q9D8R0
Molecular Weight	11,675 Da
NCBI Official Full Name	thioredoxin
NCBI Official Synonym Full Names	thioredoxin 1
NCBI Official Symbol	Txn1
NCBI Official Synonym Symbols	ADF; Txn; Trx1; AW550880
NCBI Protein Information	thioredoxin; trx; ATL-derived factor
UniProt Protein Name	Thioredoxin
UniProt Gene Name	Txn
UniProt Synonym Gene Names	Txn1; Trx; ADF
UniProt Entry Name	THIO_MOUSE

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/thioredoxin-trx-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/257233>