

**TXN Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20358b**

## Specification

---

### TXN Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	<a href="#">P10599</a>
Other Accession	<a href="#">P11232</a> , <a href="#">P08628</a> , <a href="#">P82460</a> , <a href="#">P10639</a> , <a href="#">O97680</a>
Reactivity	Human
Predicted	Bovine, Mouse, Pig, Rabbit, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	66-94

### TXN Antibody (C-term) - Additional Information

Gene ID 7295

#### Other Names

Thioredoxin, Trx, ATL-derived factor, ADF, Surface-associated sulphhydryl protein, SASP, TXN, TRDX, TRX, TRX1

#### Target/Specificity

This TXN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 66-94 amino acids from the C-terminal region of human TXN.

#### Dilution

WB~~1:1000  
IHC-P~~1:25

#### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

TXN Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### TXN Antibody (C-term) - Protein Information

Name TXN

## Synonyms TRDX, TRX, TRX1

**Function** Participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyzes dithiol-disulfide exchange reactions (PubMed:[17182577](#), PubMed:[19032234](#), PubMed:[2176490](#)). 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 (PubMed:[16408020](#), PubMed:[17606900](#)). 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 (PubMed:[11118054](#), PubMed:[9108029](#)).

## Cellular Location

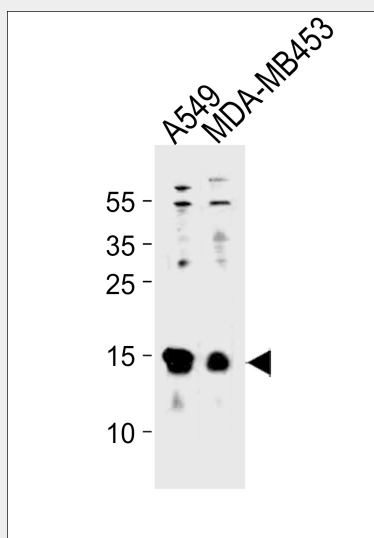
Nucleus. Cytoplasm. Secreted Note=Translocates from the cytoplasm into the nucleus after phorbol 12- myristate 13-acetate induction (PMA) (PubMed:[9108029](#)). Predominantly in the cytoplasm in non irradiated cells (PubMed:[11118054](#)). Radiation induces translocation of TRX from the cytoplasm to the nucleus (PubMed:[11118054](#)). Secreted by a leaderless secretory pathway (PubMed:[1332947](#)).

## TXN Antibody (C-term) - Protocols

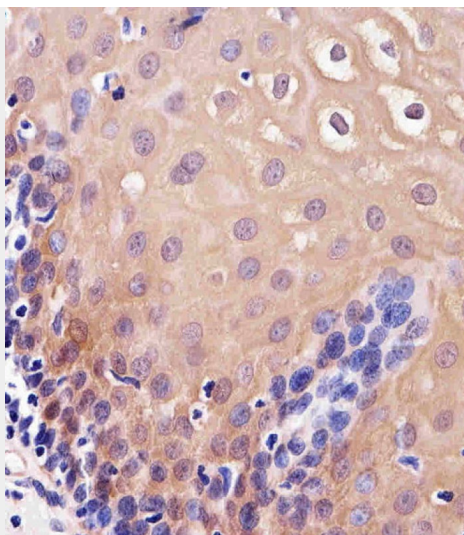
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

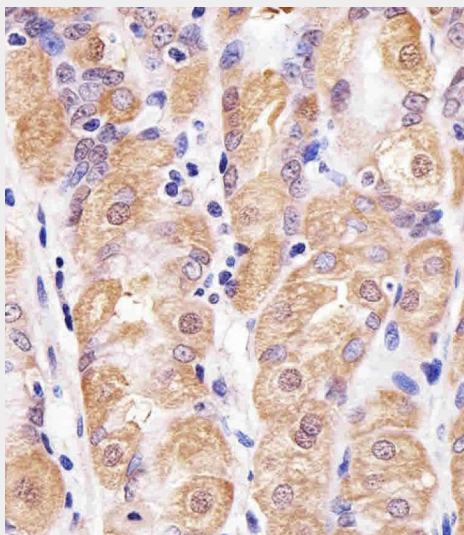
## TXN Antibody (C-term) - Images



TXN Antibody (C-term) (Cat. #AP20358b) western blot analysis in A549,MDA-MB453 cell line lysates (35ug/lane).This demonstrates the TXN antibody detected the TXN protein (arrow).



Immunohistochemical analysis of paraffin-embedded H. esophagus section using TXN Antibody (C-term)(Cat#AP20358b). AP20358b was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded H. stomach section using TXN Antibody (C-term)(Cat#AP20358b). AP20358b was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

### **TXN Antibody (C-term) - Background**

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.

ADF augments the expression of the interleukin-2 receptor TAC (IL2R/P55).

### **TXN Antibody (C-term) - Citations**

- [The Antimetastatic Effect and Underlying Mechanisms of Thioredoxin Reductase Inhibitor Etheselen.](#)
- [Butaselen prevents hepatocarcinogenesis and progression through inhibiting thioredoxin](#)

[reductase activity.](#)