

# Recombinant Human TXN Protein

**Cat. No.** TXN-155H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human TXN Protein without tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 11.7 kDa                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Unit Definition</b>  | One unit is defined as the amount of enzyme required to produce 1 nmol of eosin per minute at 37 centigrade in 50 mM Tris-HCl, pH 7.5, 1 mM EDTA, and 0.2 mg/mL BSA containing 8.3 $\mu$ M eosin-labeled insulin, 250 $\mu$ M NADPH, and 0.2 U/mL thioredoxin reductase.                                                                                                                |
| <b>Applications</b>     | Enzyme activity, WB                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Stability</b>        | $\geq$ 6 months                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>          | At -80 centigrade.                                                                                                                                                                                                                                                                                                                                                                      |

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**Storage Buffer** 60 mM ammonium bicarbonate pH 7.5, 5% Glycerol

## GENE INFORMATION

**Gene Name** TXN thioredoxin [ Homo sapiens (human) ]

**Official Symbol** TXN

**Synonyms** TXN; thioredoxin; TRX; TRDX; TRX1; Trx80; thioredoxin; ADF; ATL-derived factor; SASP; TXN delta 3; surface-associated sulphhydryl protein; testicular tissue protein Li 199; thioredoxin delta 3

**Gene ID** 7295

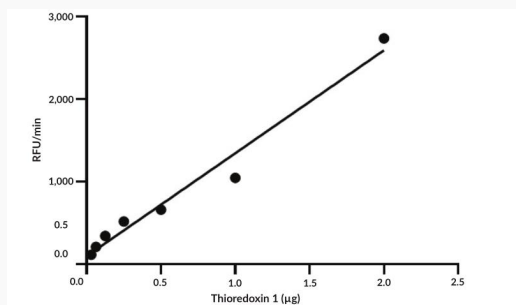
**mRNA Refseq** NM\_003329

**Protein Refseq** NP\_003320

**MIM** 187700

**UniProt ID** P10599

### Thioredoxin 1 Activity



Thioredoxin 1 Activity was determined using Thioredoxin activity fluorescent assay

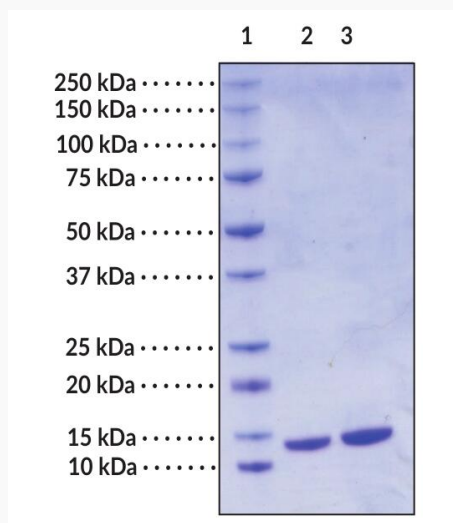
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kit with 0.54 µg/mL eosin-labeled insulin substrate.

**SDS-PAGEA nalysis  
of Thioredoxin 1**



Lane 1: MW Markers

Lane 2: Thioredoxin 1 (2 µg)

Lane 3: Thioredoxin 1 (4 µg)

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