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Datasheet for ABIN7533791  
**TXN Protein (His tag)**

### Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 100 µg                                     |
| Target:                       | TXN  |
| Origin:                       | Human                                      |
| Source:                       | Escherichia coli (E. coli)                 |
| Protein Type:                 | Recombinant                                |
| Biological Activity:          | Active                                     |
| Purification tag / Conjugate: | This TXN protein is labelled with His tag. |

### Product Details

|                              |  |
|------------------------------|--|
| Purpose:                     | Active Recombinant Human Thioredoxin/SASP/TXN Protein  |
| Sequence:                    | VKQIESKTAF QEALDAAGDK LVVDFSATW CGPCKMIKPF FHSLSEKYSN VIFLEVDVDD<br>CQDVASECEV KCMPTFQFFK KGQKVGESG ANKEKLEATI NELV  |
| Specificity:                 | Val2-Val105  |
| Purity:                      | > 95 % by SDS-PAGE.  |
| Sterility:                   | 0.22 µm filtered   |
| Endotoxin Level:             | < 0.1 EU/µg of the protein by LAL method.  |
| Biological Activity Comment: | 1. Measured by its binding ability in a functional ELISA. Immobilized Human TXN Protein at 1 µg/mL (100 µL/well) can bind TXN Rabbit mAb with a linear range of 0.976-5.3 ng/mL. 2. Measured by its ability to catalyze the reduction of insulin. The reaction leads to precipitation, which can be measured by absorbance at 650 nm. The specific activity is >9 A650/min/mg. |

## Target Details

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|                   |   |
|-------------------|---|
| Target:           | TXN   |
| Alternative Name: | Thioredoxin/SASP/TXN ( <a href="#">TXN Products</a> )   |
| Background:       | <p>Description: Thioredoxin, also known as ATL-derived factor, Surface-associated sulphhydryl protein, SASP and TXN, is a nucleus, cytoplasm and secreted protein which belongs to the thioredoxin family. Trx-1 is the only extracellular occurring thioredoxin, and is secreted by lymphocytes, hepatocytes, fibroblasts, and several tumor cells. Plasma concentrations of Trx-1 are up to 6 nM . In cells, Trx-1 is localized predominantly in the cytoplasm. Small amounts have been detected in the nucleus and in association with the outside surface of the cells. Biological functions of Trx-1 include growth factor activity, antioxidant properties, a cofactor that provides reducing equivalents, and transcriptional regulation.</p> <p>Name: TRDX, TRX, TRX1, TXN, TRX, TRX1</p> |
| Gene ID:          | 7295  |
| UniProt:          | <a href="#">P10599</a>  |
| Pathways:         | <a href="#">Carbohydrate Homeostasis</a> , <a href="#">Cell RedoxHomeostasis</a>  |

## Application Details

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Restrictions: For Research Use only

## Handling

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|                  |   |
|------------------|---|
| Format:          | Lyophilized   |
| Reconstitution:  | Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles. |
| Buffer:          | Lyophilized from a 0.22 µm filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0.  |
| Storage:         | -20 °C, -80 °C  |
| Storage Comment: | <p>Store the lyophilized protein at -20°C to -80 °C for long term.</p> <p>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.</p>  |