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Datasheet for ABIN7520542 TXN Protein (His tag)

Overview

Quantity:	50 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 CQDVASECEV KCMPTEQFFK 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

Target:	TXN
Alternative Name:	Thioredoxin/SASP/TXN (TXN Products)
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:	P10599
Pathways:	Carbohydrate Homeostasis , Cell Redox Homeostasis

Application Details

Restrictions:	For Research Use only
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Handling

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>