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## Datasheet for ABIN7319080 TXN2 Protein (His tag)

### Overview

Quantity:	50 µg
Target:	TXN2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TXN2 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human Thioredoxin-2/TXN2 Protein (His Tag)
Sequence:	Thr60-Gly166
Characteristics:	Recombinant Human Thioredoxin-2 is produced by our E.coli expression system and the target gene encoding Thr60-Gly166 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	TXN2
Alternative Name:	Thioredoxin-2/TXN2 ( <a href="#">TXN2 Products</a> )
Background:	Background: Thioredoxin-2 (TXN2) is a mitochondrial member of the thioredoxin family. Thioredoxin-2 is extensively expressed in adult and fetal tissues. Thioredoxin-2 contains an N-terminal 59 amino acid transit peptide, which is cleaved before translocating to mitochondria.

## Target Details

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Mitochondrial thioredoxin play important roles in the regulation of the mitochondrial membrane potential and in protection against oxidant-induced apoptosis. Thioredoxin-2 could be involved in the resistance to anti-tumor agents and possesses a dithiol-reducing activity. In addition, Thioredoxin-2 is important at low oxidative stress conditions.

Synonym: Thioredoxin Mitochondrial, MTRX, Mt-Trx, Thioredoxin-2, TXN2, TRX2

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Molecular Weight: 12.0 kDa

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UniProt: [Q99757](#)

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Pathways: [Cell RedoxHomeostasis](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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Reconstitution: Please refer to the printed manual for detailed information.

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Buffer: Lyophilized from a 0.2  $\mu$ m filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

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Storage: 4 °C,-20 °C,-80 °C

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Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.