

## Product datasheet

# Recombinant human Thioredoxin 2 protein ab78845

### 画像数 1

#### 製品の概要

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製品名	Recombinant human Thioredoxin 2 protein
タンパク質長	Full length protein

#### 製品の詳細

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由来	Recombinant
由来	Escherichia coli

#### アミノ酸配列

生物種	Human
配列	MTTFNIQDGP DFQDRVVNSE TPVVVDFHAQ WCGPCKILGP RLEKMVAKQH GKVVMAKVDI DDHTDLAIEY EVSAVPTVLA MKNGDVVDFK VGIKDEDQLE AFLKKLIG

#### 特性

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Our [Abpromise guarantee](#) covers the use of **ab78845** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

生理活性	Specific activity is 3-4 A650/min/mg, obtained by measuring the increase of insulin precipitation in absorbance at 650 nm resulting from the reduction of insulin.
アプリケーション	Functional Studies SDS-PAGE
精製度	> 95 % SDS-PAGE. ab78845 is purified using conventional chromatography techniques.
製品の状態	Liquid

#### 前処理および保存

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保存方法および安定性	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Preservative: None Constituents: PBS, pH 7.4
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This product is an active protein and may elicit a biological response in vivo, handle with caution.

## 関連情報

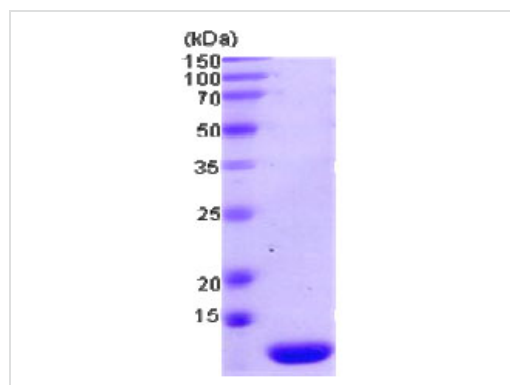
### 関連性

Thioredoxins (Trx) are small, multi-functional proteins with oxidoreductase activity and are ubiquitous in essentially all living cells. Trx contains a redox-active disulfide/dithiol group within the conserved Cys-Gly-Pro-Cys active site. The two cysteine residues in the conserved active centers can be oxidized to form intramolecular disulfide bonds. Reduction of the active site disulfide in oxidized Trx is catalyzed by Trx reductase with NADPH as the electron donor. The reduced Trx is a hydrogen donor for ribonucleotide reductase, the essential enzyme for DNA synthesis, and a potent general protein disulfide reductase with numerous functions in growth and redox regulations. Specific protein disulfide targets for reduction by Trx include protein disulfide isomerase(PDI) and a number of transcription factors such as p53, NF- $\kappa$ B and AP-1. Trx is also capable of removing H<sub>2</sub>O<sub>2</sub>, particularly when it is coupled with either methionine sulfoxide reductase or several isoforms of peroxiredoxins.

### 細胞内局在

Mitochondrial

## 画像



15% SDS-PAGE showing ab78845 at approximately 11kDa (3 $\mu$ g).

SDS-PAGE - Thioredoxin 2 protein (Human)  
(ab78845)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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