

## Product datasheet

# Recombinant E. coli Thioredoxin / TRX protein ab115709

画像数 2

### 製品の詳細

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製品名	Recombinant E. coli Thioredoxin / TRX protein
精製度	> 95 % SDS-PAGE. ab115709 is purified by multi-step chromatography
発現系	Escherichia coli
アクセッション番号	<b>P0AA25</b>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Escherichia coli
予測される分子量	12 kDa
タグ	His tag N-Terminus

### 特性

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Our **Abpromise guarantee** covers the use of **ab115709** in the following tested applications.

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

アプリケーション	SDS-PAGE Western blot Functional Studies
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製品の状態	Liquid
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### 前処理および保存

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保存方法および安定性	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. Constituents: 0.61% Tris, 0.03% EDTA, 0.58% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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### 関連情報

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機能	Participates in various redox reactions through the reversible oxidation of its active center dithiol
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to a disulfide and catalyzes dithiol-disulfide exchange reactions. Plays a role in the reversible S-nitrosylation of cysteine residues in target proteins, and thereby contributes to the response to intracellular nitric oxide. Nitrosylates the active site Cys of CASP3 in response to nitric oxide (NO), and thereby inhibits caspase-3 activity. Induces the FOS/JUN AP-1 DNA-binding activity in ionizing radiation (IR) cells through its oxidation/reduction status and stimulates AP-1 transcriptional activity.

ADF augments the expression of the interleukin-2 receptor TAC (IL2R/P55).

#### 配列類似性

Belongs to the thioredoxin family.

Contains 1 thioredoxin domain.

#### 翻訳後修飾

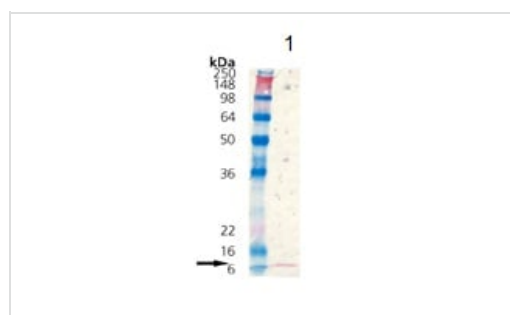
In the fully reduced protein, both Cys-69 and Cys-73 are nitrosylated in response to nitric oxide (NO). When two disulfide bonds are present in the protein, only Cys-73 is nitrosylated. Cys-73 can serve as donor for nitrosylation of target proteins.

In case of infection, ubiquitinated by *S.typhimurium* protein slRP, leading to its degradation.

#### 細胞内局在

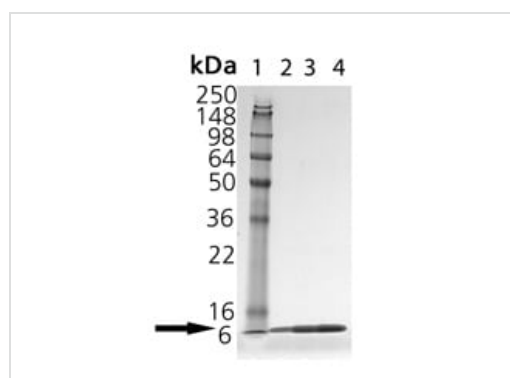
Nucleus. Cytoplasm. Secreted. Secreted by a leaderless secretory pathway. Predominantly in the cytoplasm in non irradiated cells. Radiation induces translocation of TRX from the cytoplasm to the nucleus.

#### 画像



Thioredoxin /TRX antibody + Recombinant *E. coli* Thioredoxin / TRX protein (ab115709) at 0.1  $\mu$ g

Western blot - Recombinant *E. coli* Thioredoxin / TRX protein (ab115709)



SDS-PAGE analysis  
Lane 1: MW markers  
Lane 2: ab115709 at 1  $\mu$ g  
Lane 3: ab115709 at 2  $\mu$ g  
Lane 4: ab115709 at 5  $\mu$ g

SDS-PAGE - Recombinant *E. coli* Thioredoxin / TRX protein (ab115709)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

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