**Product datasheet**

**Anti-Thioredoxin 1 antibody [2C9] ab139677**

1 References 1 Image

### Overview

**Product name**  
Anti-Thioredoxin 1 antibody [2C9]

**Description**  
Mouse monoclonal [2C9] to Thioredoxin 1

**Host species**  
Mouse

**Specificity**  
ab139677 recognizes *E. coli* Thioredoxin / TRX and TRX-tag-f Thioredoxin.

**Tested applications**  
Suitable for: WB

**Species reactivity**  
Reacts with: Escherichia coli

**Immunogen**  
Full length protein corresponding to Escherichia coli Thioredoxin 1.  
Database link: [P0AA25](https://www.uniprot.org/uniprot/P0AA25)

### Properties

**Form**  
Liquid

**Storage instructions**  
Shipped at 4°C. Store at -20°C.

**Storage buffer**  
Constituents: 49% PBS, 50% Glycerol

**Purity**  
Ascites

**Purification notes**  
Purified from ascites.

**Clonality**  
Monoclonal

**Clone number**  
2C9

**Isotype**  
IgG1

### Applications

Our **Abpromise guarantee** covers the use of ab139677 in the following tested applications.

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

<table>
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<th>Application</th>
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<td>WB</td>
<td></td>
<td>Use a concentration of 1 µg/ml. Predicted molecular weight: 12 kDa.</td>
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Relevance
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. Specific protein disulfide targets for reduction by Trx include protein disulfide–isomerase (PDI) and a number of transcription factors such as p53, NFkB and AP-1. Trx is also capable of removing H2O2, particularly when it is coupled with either methionine sulfoxide reductase or several isoforms of peroxiredoxins.

Cellular localization
Cytoplasmic

Images

All lanes: Anti-Thioredoxin 1 antibody [2C9] (ab139677) at 1 µg/ml
Lane 1: Thioredoxin fusion protein expressed cell lysate; no induction
Lane 2: Thioredoxin fusion protein expressed cell lysate; induction for 30 min
Lane 3: Thioredoxin fusion protein expressed cell lysate; induction for 60 min
Lane 4: Thioredoxin fusion protein expressed cell lysate; induction for 90 min
Lane 5: Thioredoxin fusion protein expressed cell lysate; induction for 120 min
Lane 6: Thioredoxin fusion protein expressed cell lysate; induction for 150 min
Lane 7: Thioredoxin fusion protein expressed cell lysate; induction for 180 min
Lane 8: Thioredoxin fusion protein expressed cell lysate; induction for 210 min

Developed using the ECL technique.

Predicted band size: 12 kDa

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