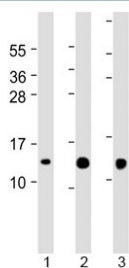


## Thioredoxin Antibody / TRX / TXN [clone 1850CT339.14.1] (F54201)

Catalog No.	Formulation	Size
F54201-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F54201-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	IgG1, kappa
<b>Clone Name</b>	1850CT339.14.1
<b>Purity</b>	Protein G purified
<b>UniProt</b>	P10599
<b>Applications</b>	Western Blot : 1:1000-1:2000
<b>Limitations</b>	This Thioredoxin antibody is available for research use only.



Western blot testing of human 1) SH-SY5Y, 2) A431 and 3) HeLa cell lysate with Thioredoxin antibody at 1:2000. Predicted molecular weight ~12 kDa.

### Description

Thioredoxin / TRX / TXN participates in various redox reactions through the reversible oxidation of its active center dithiol 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.

## **Application Notes**

The stated application concentrations are suggested starting points. Titration of the Thioredoxin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## **Immunogen**

Recombinant human Thioredoxin protein was used as the immunogen for the Thioredoxin antibody.

## **Storage**

Aliquot the Thioredoxin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.