

## Thioredoxin Rabbit mAb

Catalog No: #52051

Package Size: #52051-1 50ul #52051-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

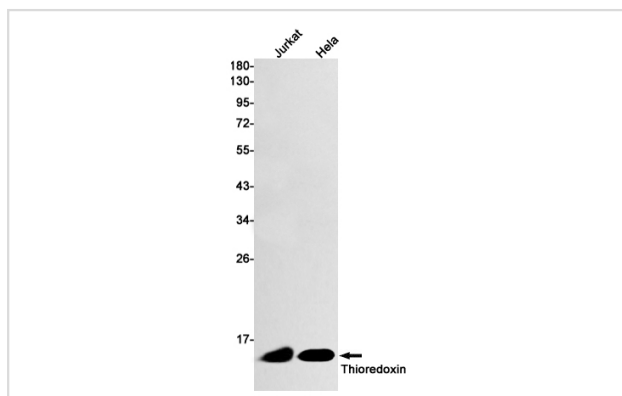
## Description

Product Name	Thioredoxin Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S07-4H5
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB IHC
Species Reactivity	Human
Immunogen Description	A synthetic peptide of human Thioredoxin/TRX
Conjugates	Unconjugated
Modification	Unmodification
Other Names	TXN; ADF; ATL-derived factor; SASP; Thioredoxin; TRX1; Thioredoxin delta 3; TRX; TXN delta 3; TRDX;
Accession No.	Swiss-Prot:P10599GenelD:7295
Uniprot	P10599
GenelD	7295
Calculated MW	Calculated MW: 12 kDa; Observed MW: 12 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

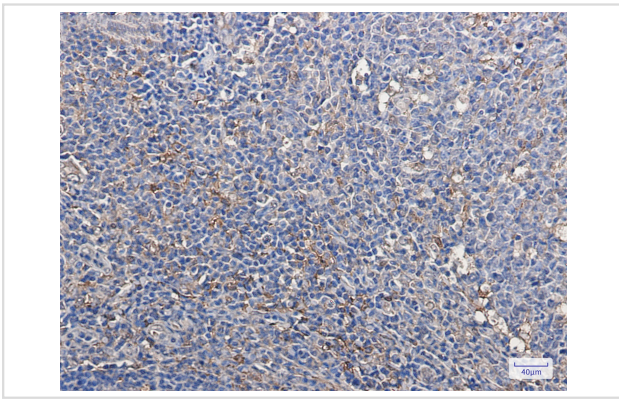
## Application Details

WB: 1/2000-1/10000; IHC: 1/50-1/200;

## Images



Western blot detection of Thioredoxin in Jurkat, HeLa cell lysates using Thioredoxin Rabbit mAb(1:1000 diluted). Predicted band size: 12kDa. Observed band size: 12kDa.



Immunohistochemistry of Thioredoxin/TRX in paraffin-embedded Human tonsil using Thioredoxin/TRX Rabbit mAb at dilution 1/100

## Background

Swiss-Prot Acc.P10599.Participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyzes dithiol-disulfide exchange reactions (PubMed:2176490, PubMed:17182577, PubMed:19032234).

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 (PubMed:16408020, PubMed:17606900).

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 (PubMed:9108029, PubMed:11118054).

Note: This product is for in vitro research use only