

# Thioredoxin 2 Rabbit mAb

Catalog # AP76171

## Product Information

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<b>Application</b>	WB, IHC-P, FC
<b>Primary Accession</b>	<a href="#">Q99757</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	18383

## Additional Information

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<b>Gene ID</b>	25828
<b>Other Names</b>	TXN2
<b>Dilution</b>	WB~~1:1000-1:5000 IHC-P~~N/A FC~~1:50-1:100
<b>Format</b>	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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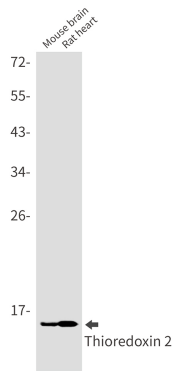
<b>Name</b>	TXN2
<b>Synonyms</b>	TRX2
<b>Function</b>	Important for the control of mitochondrial reactive oxygen species homeostasis, apoptosis regulation and cell viability (PubMed: <a href="#">12032145</a> , PubMed: <a href="#">12080052</a> , PubMed: <a href="#">26626369</a> ) Is involved in various redox reactions including the reduction of protein disulfide bonds, through the reversible oxidation of its active center dithiol to a disulfide (By similarity).
<b>Cellular Location</b>	Mitochondrion
<b>Tissue Location</b>	Widely expressed in adult (at protein level) and fetal tissues.

## Background

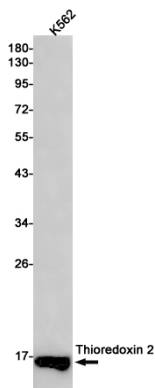
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Thioredoxins (Trx) are small, multi-functional proteins with oxidoreductase activity and are ubiquitous in essentially all living cells. Trx contains a redox-active disulfide/dithiol group within the conserved Cys-Gly-Pro-Cys active site.

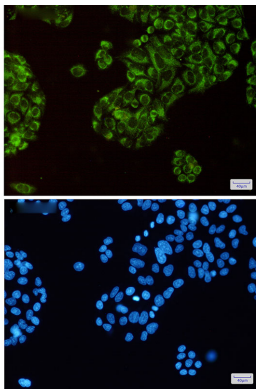
## Images



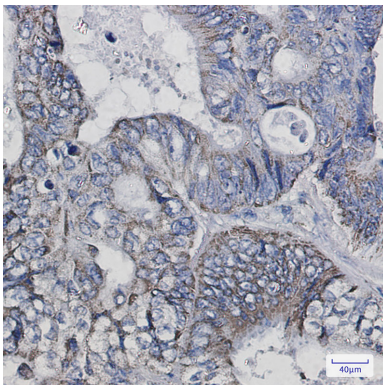
Western blot analysis of Thioredoxin 2 in mouse brain, rat heart lysates using Thioredoxin 2 antibody.



Western blot analysis of Thioredoxin 2 in K562 lysates using Thioredoxin 2 antibody.



Immunocytochemistry analysis of Thioredoxin 2 (green) in Hela using Thioredoxin 2 antibody, and DAPI (blue)



Immunohistochemistry analysis of paraffin-embedded Human colon cancer using Thioredoxin 2 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.