

# Thioredoxin 2 (Trx2) Antibody (c-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP1338b

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q99757</a>
<b>Other Accession</b>	<a href="#">P97615</a> , <a href="#">P97493</a> , <a href="#">Q95108</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Bovine, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB5224
<b>Calculated MW</b>	18383
<b>Antigen Region</b>	136-166

## Additional Information

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<b>Gene ID</b>	25828
<b>Other Names</b>	Thioredoxin, mitochondrial, MTRX, Mt-Trx, Thioredoxin-2, TXN2, TRX2
<b>Target/Specificity</b>	This Thioredoxin 2 (Trx2) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 136-166 amino acids from the C-terminal region of human Thioredoxin 2 (Trx2).
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	Thioredoxin 2 (Trx2) Antibody (c-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## 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:[12032145](#), PubMed:[12080052](#), PubMed:[26626369](#)) 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).

**Cellular Location**

Mitochondrion

**Tissue Location**

Widely expressed in adult (at protein level) and fetal tissues.

## Background

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TRX2 is a mitochondrial member of the thioredoxin family, a group of small multifunctional redox-active proteins. The encoded protein may play important roles in the regulation of the mitochondrial membrane potential and in protection against oxidant-induced apoptosis.

## References

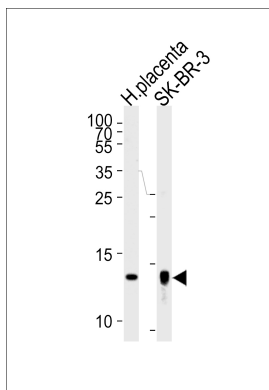
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J. Biol. Chem. 277 (36), 33249-33257 (2002)

J. Biol. Chem. 277 (36), 33242-33248 (2002)

## Images

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Western blot analysis of lysates from human placenta tissue lysate, SK-BR-3 cell line (from left to right), using Trx2 Antibody (I151)(Cat. #AP1338b). AP1338b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

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