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Thioredoxin 2 (Trx2) Antibody (c-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1338b

Product Information

Application	WB, E
Primary Accession	Q99757
Other Accession	P97615, P97493, Q95108
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB5224
Calculated MW	18383
Antigen Region	136-166

Additional Information

Gene ID	25828
Other Names	Thioredoxin, mitochondrial, MTRX, Mt-Trx, Thioredoxin-2, TXN2, TRX2
Target/Specificity	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).
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	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.
Storage	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.
Precautions	Thioredoxin 2 (Trx2) Antibody (c-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TXN2
Synonyms	TRX2
Function	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.

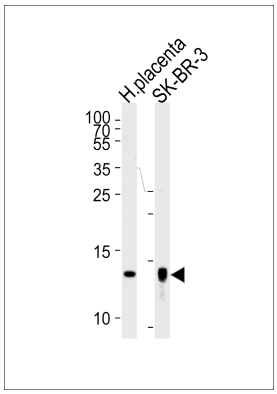
Background

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

J. Biol. Chem. 277 (36), 33249-33257 (2002)
J. Biol. Chem. 277 (36), 33242-33248 (2002)

Images



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'.