

Datasheet for ABIN388136
anti-TXN antibody (N-Term)

2 Images

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Overview

Quantity:	400 µL
Target:	TXN
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TXN antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This Thioredoxin (TRX) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human Thioredoxin (TRX).
Clone:	RB5217
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	TXN
Alternative Name:	Thioredoxin (TRX) (TXN Products)

Target Details

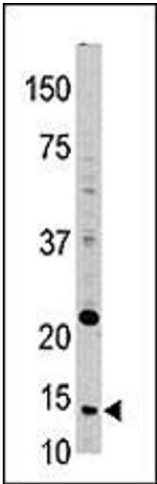
Background:	Thioredoxins (Trx) are small, multi-functional proteins with oxidoreductase activity and are ubiquitous in essentially all living cells. Trx contains a redox active disulfide/dithiol group within the conserved Cys-Gly-Pro-Cys active site. The two cysteine residues in the conserved active centers can be oxidized to form intramolecular disulfide bonds. Reduction of the active site disulfide in oxidized Trx is catalyzed by Trx reductase with NADPH as the electron donor. The reduced Trx is a hydrogen donor for ribonucleotide reductase, the essential enzyme for DNA synthesis, and a potent general protein disulfide reductase with numerous functions in growth and redox regulations. Specific protein disulfide targets for reduction by Trx include protein disulfide isomerase(PDI) and a number of transcription factors such as p53, NF-kB and AP-1. Trx is also capable of removing H ₂ O ₂ , particularly when it is coupled with either methionine sulfoxide reductase or several isoforms of peroxiredoxins.
Molecular Weight:	11737
Gene ID:	7295
NCBI Accession:	NP_001231867 , NP_003320
UniProt:	P10599
Pathways:	Carbohydrate Homeostasis , Cell RedoxHomeostasis

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000
Restrictions:	For Research Use only

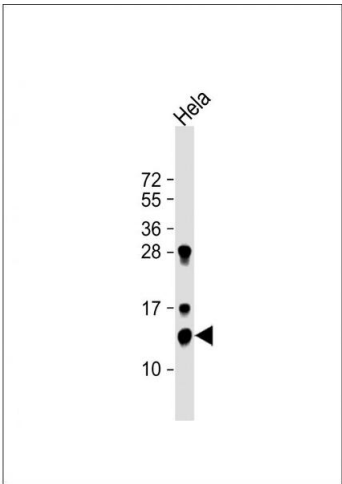
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months



Western Blotting

Image 1. Western blot analysis of anti-TrX Pab ((ABIN388136 and ABIN2850500)) in HL-60 cell line lysate. TrX(arrow) was detected using the purified Pab.



Western Blotting

Image 2. Anti-TrX Antibody (M1) at 1:1000 dilution + HeLa whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 12 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.