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## Datasheet for ABIN705971 **anti-TXN2 antibody (AA 101-166)**

### Overview

Quantity:	100 µL
Target:	TXN2
Binding Specificity:	AA 101-166
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TXN2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Thioredoxin 2
Isotype:	IgG
Cross-Reactivity:	Rat
Predicted Reactivity:	Human,Mouse,Dog,Cow,Pig,Rabbit
Purification:	Purified by Protein A.

### Target Details

Target:	TXN2
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## Target Details

Alternative Name:	Thioredoxin 2 ( <a href="#">TXN2 Products</a> )
Background:	<p>Synonyms: mitochondrial thioredoxin, MT-TRX, MTRX, thioredoxin 2 precursor, Thioredoxin mitochondrial, Thioredoxin2, TRX 2, TRX2, TXN 2, TXN2.</p> <p>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-<math>\kappa</math>B and AP-1. Trx is also capable of removing H<sub>2</sub>O<sub>2</sub>, particularly when it is coupled with either methionine sulfoxide reductase or several isoforms of peroxiredoxins.</p>
Gene ID:	25828
Pathways:	<a href="#">Cell RedoxHomeostasis</a>

## Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 $\mu$ g/ $\mu$ L
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

## Handling

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Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months