Datasheet for ABIN2807004

# anti-TXN2 antibody (AA 101-166) (Alexa Fluor 594)

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## Overview

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|---|---|
| Quantity: | 100 µL |
| Target: | TXN2 |
| Binding Specificity: | AA 101-166 |
| Reactivity: | Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This TXN2 antibody is conjugated to Alexa Fluor 594 |
| Application: | Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

## Product Details

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| 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

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| Target: | TXN2 |
| Alternative Name: | Thioredoxin 2 (TXN2 Products) |

## Target Details

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| Background: | Synonyms: mitochondrial thioredoxin, MT-TRX, MTRX, thioredoxin 2 precursor, Thioredoxin mitochondrial, Thioredoxin2, TRX 2, TRX2, TXN 2, TXN2.<br>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 H2O2, particularly when it is coupled with either methionine sulfoxide reductase or several isoforms of peroxiredoxins. |
| Gene ID: | 25828 |
| Pathways: | Cell RedoxHomeostasis |

## Application Details

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| Application Notes: | IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200 |
| Restrictions: | For Research Use only |

## Handling

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|---|---|
| Format: | Liquid |
| Concentration: | 1 μg/μL |
| Buffer: | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol. |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. |

## Handling

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| Expiry Date: | 12 months |

 