

# Anti-TRX1 TXN Rabbit Monoclonal Antibody

Catalog # ABO13512

## Product Information

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|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, FC                                                                                                                             |
| <b>Primary Accession</b> | <a href="#">P10599</a>                                                                                                             |
| <b>Host</b>              | Rabbit                                                                                                                             |
| <b>Isotype</b>           | Rabbit IgG                                                                                                                         |
| <b>Reactivity</b>        | Rat, Human, Mouse                                                                                                                  |
| <b>Clonality</b>         | Monoclonal                                                                                                                         |
| <b>Format</b>            | Liquid                                                                                                                             |
| <b>Description</b>       | Anti-TRX1 TXN Rabbit Monoclonal Antibody . Tested in WB, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat. |

## Additional Information

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|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                  | 7295                                                                                                                                                                                                        |
| <b>Other Names</b>              | Thioredoxin, Trx, ATL-derived factor, ADF, Surface-associated sulphydryl protein, SASP, Hom s Trx, TXN, TRDX, TRX, TRX1                                                                                     |
| <b>Calculated MW</b>            | 11737                                                                                                                                                                                                       |
| <b>Application Details</b>      | WB 1:1000-1:5000<br>FC 1:100                                                                                                                                                                                |
| <b>Subcellular Localization</b> | Nucleus. Cytoplasm. Secreted. Secreted by a leaderless secretory pathway. Predominantly in the cytoplasm in non irradiated cells. Radiation induces translocation of TRX from the cytoplasm to the nucleus. |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                   |
| <b>Contents</b>                 | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                                                                         |
| <b>Clone Names</b>              | Clone: AOGB-20                                                                                                                                                                                              |
| <b>Immunogen</b>                | A synthesized peptide derived from human TRX1                                                                                                                                                               |
| <b>Purification</b>             | Affinity-chromatography                                                                                                                                                                                     |
| <b>Storage</b>                  | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.                                                                  |

## Protein Information

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| <b>Name</b> | TXN |
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## Synonyms

TRDX, TRX, TRX1

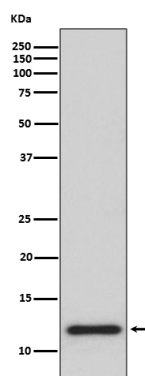
## Function

Participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyzes dithiol-disulfide exchange reactions (PubMed:[17182577](#), PubMed:[19032234](#), PubMed:[2176490](#)). Plays a role in the reversible S- nitrosylation of cysteine residues in target proteins, and thereby contributes to the response to intracellular nitric oxide. Nitrosylates the active site Cys of CASP3 in response to nitric oxide (NO), and thereby inhibits caspase-3 activity (PubMed:[16408020](#), PubMed:[17606900](#)). Induces the FOS/JUN AP-1 DNA-binding activity in ionizing radiation (IR) cells through its oxidation/reduction status and stimulates AP-1 transcriptional activity (PubMed:[11118054](#), PubMed:[9108029](#)).

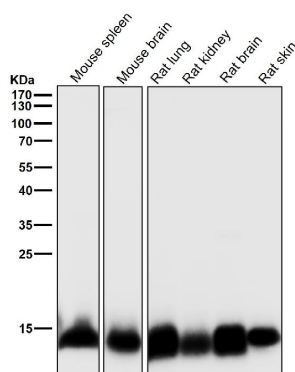
## Cellular Location

Nucleus. Cytoplasm. Secreted Note=Translocates from the cytoplasm into the nucleus after phorbol 12- myristate 13-acetate induction (PMA) (PubMed:[9108029](#)). Predominantly in the cytoplasm in non irradiated cells (PubMed:[11118054](#)). Radiation induces translocation of TRX from the cytoplasm to the nucleus (PubMed:[11118054](#)). Secreted by a leaderless secretory pathway (PubMed:[1332947](#)).

## Images



Western blot analysis of TRX1 expression in HeLa cell lysate.



All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.

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