

CUSABIO TECHNOLOGY LLC

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TXN Recombinant Monoclonal Antibody

| Product Code | CSB-RA977675A0HU |
|---|--|
| Storage | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| Uniprot No. | P10599 |
| Immunogen | A synthesized peptide derived from human TRX1 |
| Species Reactivity | Human, Rat |
| Tested Applications | ELISA, WB; Recommended dilution: WB:1:500-1:5000 |
| Relevance | Participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyzes dithiol-disulfide exchange reactions. 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. 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. |
| | |
| Form | Liquid |
| Form Conjugate | Liquid Non-conjugated |
| Form Conjugate Storage Buffer | Liquid Non-conjugated Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Form Conjugate Storage Buffer Purification Method | Liquid Non-conjugated Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Affinity-chromatography |
| Form Conjugate Storage Buffer Purification Method Isotype | Liquid Non-conjugated Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Affinity-chromatography Rabbit IgG |
| Form Conjugate Storage Buffer Purification Method Isotype Clonality | Liquid Non-conjugated Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Affinity-chromatography Rabbit IgG Monoclonal |
| Form Conjugate Storage Buffer Purification Method Isotype Clonality Product Type | Liquid Non-conjugated Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Affinity-chromatography Rabbit IgG Monoclonal Recombinant Antibody |
| Form Conjugate Storage Buffer Purification Method Isotype Clonality Product Type Immunogen Species | Liquid Non-conjugated Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Affinity-chromatography Rabbit IgG Monoclonal Recombinant Antibody Homo sapiens (Human) |
| Form Conjugate Storage Buffer Purification Method Isotype Clonality Product Type Immunogen Species Research Area | Liquid Non-conjugated Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Affinity-chromatography Rabbit IgG Monoclonal Recombinant Antibody Homo sapiens (Human) Metabolism; Signal transduction |
| Form Conjugate Storage Buffer Purification Method Isotype Clonality Product Type Immunogen Species Research Area Gene Names | Liquid Non-conjugated Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Affinity-chromatography Rabbit IgG Monoclonal Recombinant Antibody Homo sapiens (Human) Metabolism; Signal transduction TXN |
| Form Conjugate Storage Buffer Purification Method Isotype Clonality Product Type Immunogen Species Research Area Gene Names Clone No. | Liquid Non-conjugated Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Affinity-chromatography Rabbit IgG Monoclonal Recombinant Antibody Homo sapiens (Human) Metabolism; Signal transduction TXN 3G7 |

Image





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Description

The TXN recombinant monoclonal antibody is used for detecting human and rat TXN proteins in ELISA and WB applications. It is produced using recombinant DNA technology. The TXN monoclonal antibody gene is synthesized by sequencing the cDNA of the TXN antibody-producing hybridomas. The hybridomas are produced by fusing B cells isolated from animals immunized with a synthesized peptide derived from human TXN with myeloma cells. The synthesized gene is then cloned into a vector and transfected into cells for cultivation. The resulting TXN recombinant monoclonal antibody is purified using affinity chromatography from the cell culture supernatant.

TXN acts as a disulfide reductase enzyme that can reduce disulfide bonds (-S-S-) within proteins and other molecules, thereby regulating their activity. TXN plays a critical role in redox signaling and cellular antioxidant defense. TXN can reduce oxidized cysteine residues in proteins, which can modify their activity or stability. TXN can also reduce hydrogen peroxide and other reactive oxygen species, thereby preventing oxidative damage to cells. It also regulates cellular processes, including cell proliferation and immune responses.