

**Thioredoxin 2 (Trx2) Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP1338a****Specification**

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**Thioredoxin 2 (Trx2) Antibody (N-term) Blocking peptide - Product Information**Primary Accession [Q99757](#)**Thioredoxin 2 (Trx2) Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 25828**Other Names**

Thioredoxin, mitochondrial, MTRX, Mt-Trx, Thioredoxin-2, TXN2, TRX2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1338a](/product/products/AP1338a) was selected from the N-term region of human Trx2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Thioredoxin 2 (Trx2) Antibody (N-term) Blocking peptide - Protein Information****Name** TXN2**Synonyms** TRX2**Function**

Important for the control of mitochondrial reactive oxygen species homeostasis, apoptosis regulation and cell viability. Possesses a dithiol-reducing activity.

**Cellular Location**

Mitochondrion

**Tissue Location**

Widely expressed in adult (at protein level) and fetal tissues.

**Thioredoxin 2 (Trx2) Antibody (N-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**Thioredoxin 2 (Trx2) Antibody (N-term) Blocking peptide - Images****Thioredoxin 2 (Trx2) Antibody (N-term) Blocking peptide - Background**

TRX2 is a mitochondrial member of the thioredoxin family, a group of small multifunctional redox-active proteins. The encoded protein may play important roles in the regulation of the mitochondrial membrane potential and in protection against oxidant-induced apoptosis.

**Thioredoxin 2 (Trx2) Antibody (N-term) Blocking peptide - References**

J. Biol. Chem. 277 (36), 33249-33257 (2002)J. Biol. Chem. 277 (36), 33242-33248 (2002)