

Anti-Thioredoxin/TRX Antibody (5F422)

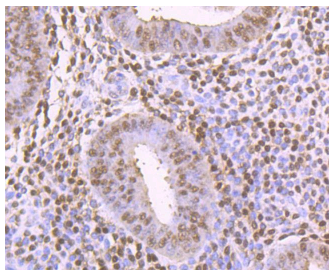
Product Details

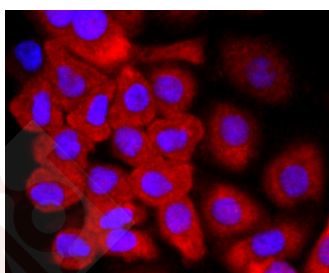
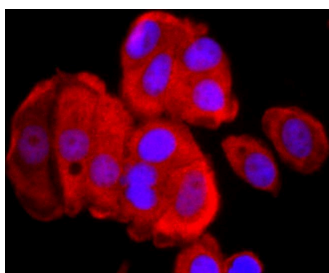
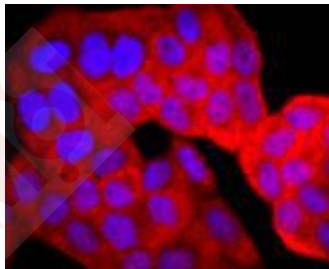
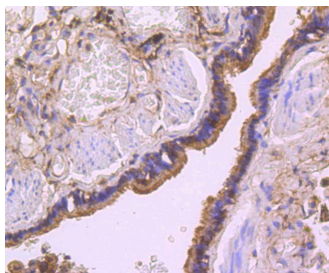
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 12 kDa.
Clone:	5F422
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of TRX1 on different lysates using anti-TRX1 antibody at 1/1,000 dilution. Positive control: Lane 1: HeLa, Lane 2: Human lung.
2. Immunohistochemical analysis of paraffin-embedded human uterus tissue using anti-TRX1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human lung tissue using anti-TRX1 antibody. Counter stained with hematoxylin.
4. ICC staining TRX1 in HeLa cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining TRX1 in MCF-7 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining TRX1 in SKOV-3 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ICC/IF,IHC,IP,WB
Recommended WB: 1:1000; IHC: 1:50-200; ICC/IF: 1:100-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein
Uniprot ID: P10599
Synonyms: TXN;TRDX;TRX1;Surface-Associated Sulphydryl Protein;ADF;SASP;TRX;Thioredoxin;ATL-Derived Factor

Research Background

Thioredoxin (Trx) is a redox protein that is found in several species, such as bacteria, plants and mammals, and contains a conserved active site, consisting of Trp-Cys-Gly-Pro-Cys. Trx has several biological functions. It acts as a hydrogen donor for ribonucleotide reductase, which is critical for DNA synthesis, and modulates the DNA-binding activity of several transcription factors, including NFkB, AP-1, p53, TFIIC and glucocorticoid receptor. Trx also

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stimulates cell growth, is an inhibitor of apoptosis and plays a role in the protection against oxidative stress. Drugs that inhibit Trx have antitumor activity, suggesting that Trx is involved in a variety of human diseases, including cancer. TrxR is a ubiquitously expressed flavoprotein that catalyzes the NADPH-dependent reduction of Trx as well as several other oxidized cellular components.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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