

Anti-Thioredoxin/TRX Antibody (1K412)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	1K412
Purification:	Protein A

Applications

	<p>1. Anti-TXN rabbit monoclonal antibody at 1:2000 dilution.</p> <ul style="list-style-type: none">-Lane A: Hela Whole Cell Lysate.-Lane B: THP-1 Whole Cell Lysate.-Lane C: A431 Whole Cell lysate.-Lysates/proteins at 30 µg per lane.-Secondary-Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.-Developed using the Odyssey technique.-Performed under reducing conditions.-Predicted band size:12 kDa.-Observed band size:14 kDa.
Verified Activity:	<p>2. TXN was immunoprecipitated using:</p> <ul style="list-style-type: none">-Lane A:0.5 mg Hela Whole Cell Lysate.-Lane B:0.5 mg 293T Whole Cell Lysate.-2 µL anti-TXN rabbit monoclonal antibody and 15 µl of 50 % Protein G agarose.-Primary antibody:-Anti-TXN rabbit monoclonal antibody, at 1:100 dilution.-Secondary antibody:-Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution.-Developed using the odyssey technique.-Performed under reducing conditions.-Predicted band size: 13 kDa.-Observed band size: 13 kDa
Application:	IP,WB
Recommended	WB: 1:2000-1:10000; IP: 4-6 µL/mg of lysate

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human Thioredoxin / TXN protein (TMPY-02250)
Antigen Species: Human
Synonyms: RP11-427L11.1;TRX1;TRDX;TRX;MGC61975;TXN;DKFZp686B1993;thioredoxin

Research Background

Thioredoxin, also known as ATL-derived factor, Surface-associated sulphhydryl protein, SASP and TXN, is a nucleus, cytoplasm and secreted protein that belongs to the thioredoxin family. Thioredoxins are proteins that act as antioxidants by facilitating the reduction of other proteins by cysteine thiol-disulfide exchange. Thioredoxins are found in nearly all known organisms and are essential for life in mammals. Thioredoxin / TXN participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyzes dithiol-disulfide exchange reactions. Thioredoxin / TXN plays a role in the reversible S-nitrosylation of cysteine residues in target proteins, and thereby contributes to the response to intracellular nitric oxide. Thioredoxin / TXN nitrosylates the active site Cys of CASP3 in response to nitric oxide (NO), and thereby inhibits caspase-3 activity. Thioredoxin / TXN 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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