

Rabbit anti-Human Thioredoxin 2 Polyclonal Antibody

Anti-Thioredoxin 2 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA258907	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, ELISA, Western Blot

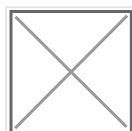
PRODUCT SYNONYMS

Thioredoxin 2; Polyclonal Antibody; Anti-Thioredoxin 2 Antibody; Rabbit Polyclonal; thioredoxin 2; Anti-MT-TRX Antibody; Anti-MTRX Antibody; Anti-RP5-1119A7. 13-005 Antibody; Anti-TRX2 Antibody; anti-Thioredoxin 2 antibody

PRODUCT SPECIFICATIONS

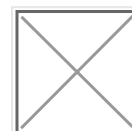
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Thioredoxin 2
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-Thioredoxin 2 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Human Thioredoxin 2 Protein
Preparation	Produced in rabbits immunized with purified, recombinant Human Thioredoxin 2 (rh Thioredoxin 2). Thioredoxin 2 specific IgG was purified by Human Thioredoxin 2 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

TXN2 was immunoprecipitated using: Lane A: 0.5 mg HeLa Whole Cell Lysate Lane B: 0.5 mg 293 Whole Cell Lysate 4 uL anti-TXN2 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-TXN2 rabbit polyclonal antibody, at 1:100 dilution Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 18 kDa Observed band size :14 kDa



IF (Immunofluorescence)

Immunofluorescence staining of His-TXN2 in U2OS cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human His-TXN2 polyclonal antibody (dilution ratio 1:100) at 4? overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm.

**IHC (Immunohistochemistry)**

Immunochemical staining of human Thioredoxin 2 in human small intestine with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.

**IHC (Immunohistochemistry)**

Immunochemical staining of human Thioredoxin 2 in human kidney with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-Thioredoxin 2 antibody	Thioredoxin-2, also known as TXN2, MTRX and TRX2, is a member of the thioredoxin family. Tryparedoxins (TXN) are thioredoxin-related proteins which, as trypanothione:peroxiredoxin oxidoreductases, constitute the trypanothione-dependent antioxidant defense and may also serve as substrates for ribonucleotide reductase in trypanosomatids. Thioredoxin-2/TXN2 contains one thioredoxin domain. It is widely expressed in adult (at protein level) and fetal tissues. Human Thioredoxin-2/TXN2 is a small redox protein important in cellular antioxidant defenses, as well as in the regulation of apoptosis. Thioredoxin-2/TXN2 has an anti-apoptotic function and plays an important role in the regulation of mitochondrial membrane potential. Thioredoxin-2/TXN2 could be involved in the resistance to anti-tumor agents. It possesses a dithiol-reducing activity. Thioredoxin-2/TXN2 plays an important role in protecting the mitochondria against oxidative stress and in sensitizing the cells to ROS-induced apoptosis. Mammalian Thioredoxin-2/TXN2 is a mitochondrial isoform of highly evolutionary conserved thioredoxins. Thioredoxins are small ubiquitous protein-disulfide oxidoreductases implicated in a large variety of biological functions.
References	Chen Y., et al., 2002, J. Biol. Chem. 277: 33242-8. Smeets A., et al., 2005, Protein Sci. 14: 2610-21. Wen, S. et al., 2009, Am J Med Genet A 149A (2): 155-60. Choudhary C., et al., 2009, Science 325: 834-40.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/thioredoxin-2-antibody-immunoprecipitation-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/258907>