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# **Human Thioredoxin Reductase 1/TRXR1 antibody**

Catalog Number: ATGA0451

#### PRODUCT INFORMATION

# Catalog number

ATGA0451

#### Clone No.

AT30F1

#### **Product type**

Monoclonal Antibody

#### UnitProt No.

Q16881

#### **NCBI Accession No.**

NP 001087240

#### **Alternative Names**

GRIM 12, KDRF, KM 102 derived reductase like factor, MGC9145, Oxidoreductase, Thioredoxin reductase, Thioredoxin reductase 1, Thioredoxin reductase 1 cytoplasmic, Thioredoxin reductase 1 Gene associated with retinoid IFN induced mortality 12 protein, Thioredoxin reductase GRIM 12, TR, TR 1, TRXR 1, TXNR, TXNRD 1

# **PRODUCT SPECIFICATION**

#### **Antibody Host**

Mouse

# **Reacts With**

Human

### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### Immunogen

Recombinant human TXNRD1 (161-647aa) purified from E. coli

# Isotype

IgG2b kappa

#### **Purification Note**

By protein-A affinity chromatography

#### **Application**

ELISA, WB, ICC/IF

#### Usage

The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



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# **Storage**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**

#### **Description**

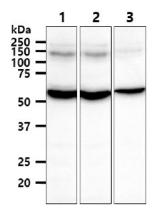
TXNRD1, also known as Thioredoxin reductase 1, is a part of a selenium-containing pyridine nucleotidedisulphide oxidoreductase family, which has a conserved catalytic site of Cys-Val-Asn-Val-Gly-Cys. This protein reduces thioredoxins as well as other substrates, and plays a role in selenium metabolism and protection against oxidative stress. Inhibition of TXNRD1 activity may provide for potential treatments of cancer, AIDS and other autoimmune diseases as well as bacterial infections and parasitic diseases.

#### **General References**

Ma X., et al. (2002) J Biol Chem. 277(25): 22460-8. Javvadi P (2010) Cancer Res. 70(5): 1941-50.

### **DATA**

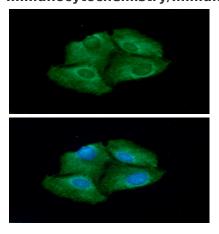
# Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human TXNRD1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate Lane 2.: A549 cell lysate Lane 3.: PC3 cell lysate

# Immunocytochemistry/Immunofluorescence (ICC/IF)



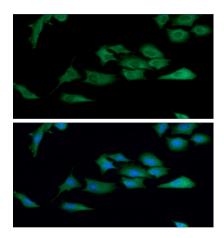
ICC/IF analysis of TXNRD1 in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human TXNRD1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



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ICC/IF analysis of TXNRD1 in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human TXNRD1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

