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# **Human Thioredoxin Reductase 1/TRXR1 Rabbit pAb**

Catalog No.: A16631 3 Publications

## **Basic Information**

#### **Observed MW**

65kDa

## **Calculated MW**

71kDa

#### Category

Polyclonal Antibody

## **Applications**

WB,IHC-P,IF/ICC,ELISA

## **Cross-Reactivity**

Human, Mouse, Rat

# **Background**

The protein encoded by this gene belongs to the pyridine nucleotide-disulfide oxidoreductase family, and is a member of the thioredoxin (Trx) system. Three thioredoxin reductase (TrxR) isozymes are found in mammals. TrxRs are selenocysteine-containing flavoenzymes, which reduce thioredoxins, as well as other substrates, and play a key role in redox homoeostasis. This gene encodes an ubiquitously expressed, cytosolic form of TrxR, which functions as a homodimer containing FAD, and selenocysteine (Sec) at the active site. Sec is encoded by UGA codon that normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, the Sec insertion sequence (SECIS) element, which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. Alternative splicing, primarily at the 5' end, results in transcript variants encoding same or different isoforms, including a glutaredoxin-containing isoform that is predominantly expressed in testis.

# **Recommended Dilutions**

WB	1:500 - 1:2000
IHC-P	1:50 - 1:100
IF/ICC	1:50 - 1:200

# **Immunogen Information**

Gene ID	Swiss Prot
7296	Q16881

#### **Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 410-490 of human Thioredoxin reductase 1 (TXNRD1) (NP\_001087240.1).

## **Synonyms**

TR; TR1; TXNR; TRXR1; GRIM-12; Thioredoxin reductase 1 (TXNRD1)

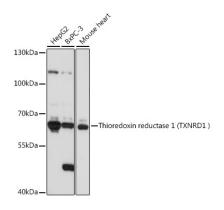
## Contact

## **Product Information**

Source	Isotype	Purification
Rabbit	IgG	Affinity purification

# Storage

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.



Western blot analysis of various lysates using Thioredoxin reductase 1 (TXNRD1) Rabbit pAb (A16631) at 1:1000 dilution.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000

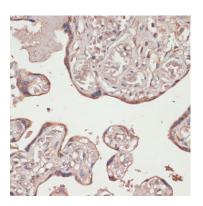
dilution.

Lysates/proteins: 25µg per lane.

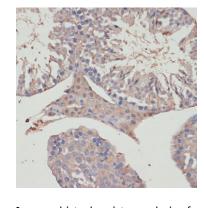
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

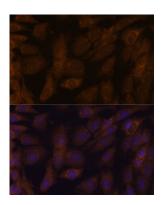
Exposure time: 90s.



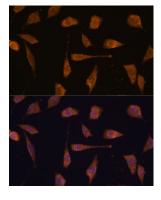
Immunohistochemistry analysis of paraffin-embedded Human placenta using Thioredoxin reductase 1 (Thioredoxin reductase 1 (TXNRD1)) antibody (A16631) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



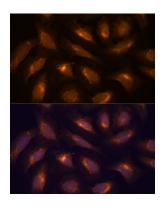
Immunohistochemistry analysis of paraffin-embedded Mouse testis using Thioredoxin reductase 1 (Thioredoxin reductase 1 (TXNRD1)) antibody (A16631) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunofluorescence analysis of C6 cells using Thioredoxin reductase 1 (TXNRD1) Rabbit pAb (A16631) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of L929 cells using Thioredoxin reductase 1 (TXNRD1) Rabbit pAb (A16631) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U-2 OS cells using Thioredoxin reductase 1 (TXNRD1) Rabbit pAb (A16631) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.