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Thioredoxin reductase 1 (TXNRD1) Rabbit pAb

Catalog No.: A16631 **3 Publications**

Basic Information

Observed MW
65kDa

Calculated MW
71kDa

Category
Primary antibody

Applications
ELISA,WB,IHC-P,IF/ICC

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
7296

Swiss Prot
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

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Product Information

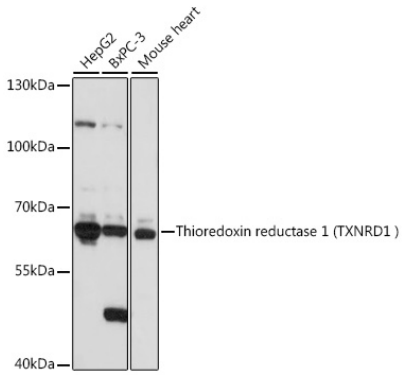
Source
Rabbit

Isotype
IgG

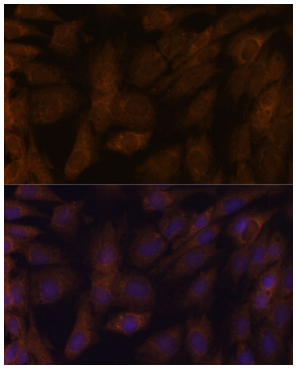
Purification
Affinity purification

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

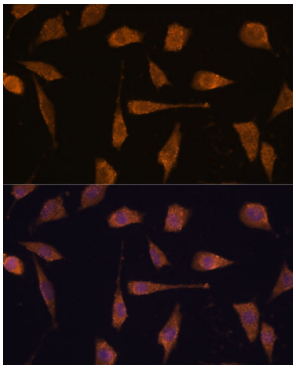
Validation Data



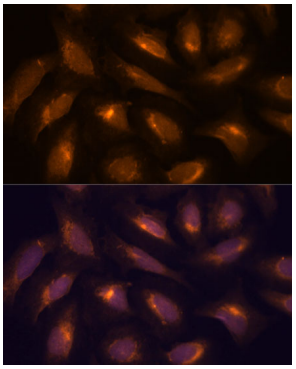
Western blot analysis of various lysates using Thioredoxin reductase 1 (TXNRD1) Rabbit pAb (A16631) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



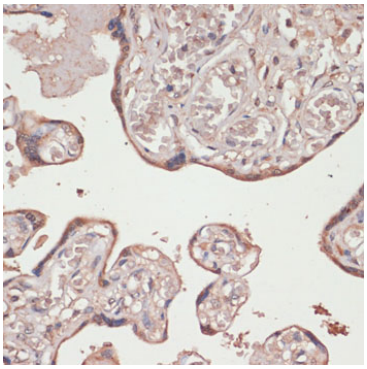
Immunofluorescence analysis of C6 cells using Thioredoxin reductase 1 (TXNRD1) Rabbit pAb (A16631) at dilution of 1:100. Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



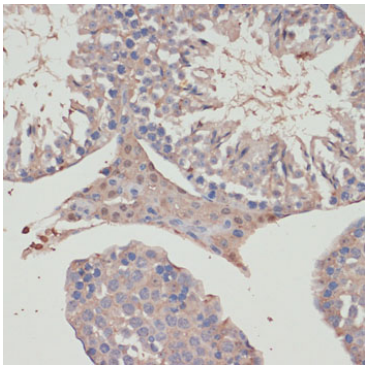
Immunofluorescence analysis of L929 cells using Thioredoxin reductase 1 (TXNRD1) Rabbit pAb (A16631) at dilution of 1:100. Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



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



Immunohistochemistry analysis of Thioredoxin reductase 1 (TXNRD1) in paraffin-embedded human placenta using Thioredoxin reductase 1 (Thioredoxin reductase 1 (TXNRD1)) antibody (A16631) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Thioredoxin reductase 1 (TXNRD1) in paraffin-embedded mouse testis using Thioredoxin reductase 1 (Thioredoxin reductase 1 (TXNRD1)) antibody (A16631) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.