

Product datasheet for **TA382967S**

TXNRD1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, WB
Recommended Dilution:	WB,1:500 - 1:2000 IHC,1:50 - 1:100 IF,1:50 - 1:200
Reactivity:	Human, Mouse, Rat
Modifications:	Unmodified
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human Thioredoxin reductase 1 (Thioredoxin reductase 1 (TXNRD1))
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	50kDa/54kDa/59kDa/60kDa/65kDa/67kDa/70kDa
Gene Name:	thioredoxin reductase 1
Database Link:	Entrez Gene 7296 Human Q16881



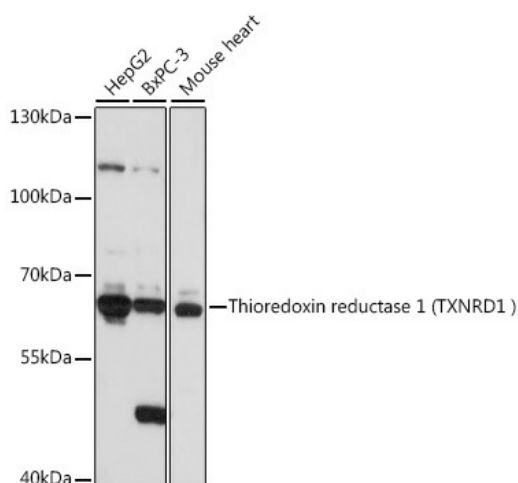
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Background:

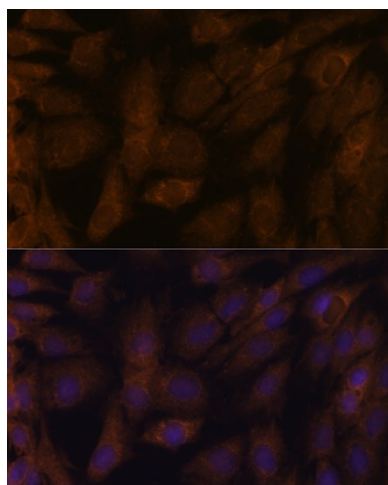
This gene encodes a member of the family of pyridine nucleotide oxidoreductases. This protein reduces thioredoxins as well as other substrates, and plays a role in selenium metabolism and protection against oxidative stress. The functional enzyme is thought to be a homodimer which uses FAD as a cofactor. Each subunit contains a selenocysteine (Sec) residue which is required for catalytic activity. The selenocysteine is encoded by the UGA codon that normally signals translation termination. The 3' UTR of selenocysteine-containing genes have a common stem-loop structure, the sec insertion sequence (SECIS), that is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. Alternative splicing results in several transcript variants encoding the same or different isoforms.

Synonyms:

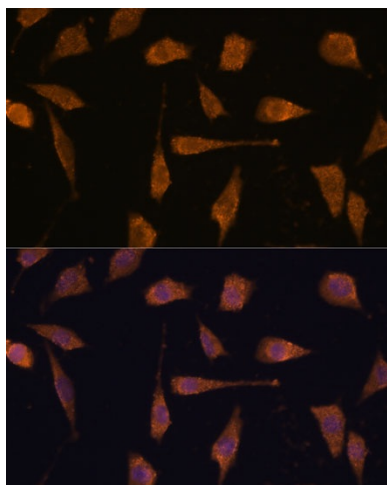
GRIM-12; KDRF; MGC9145; oxidoreductase; TR; TR1; TRXR1; TXNR

Product images:

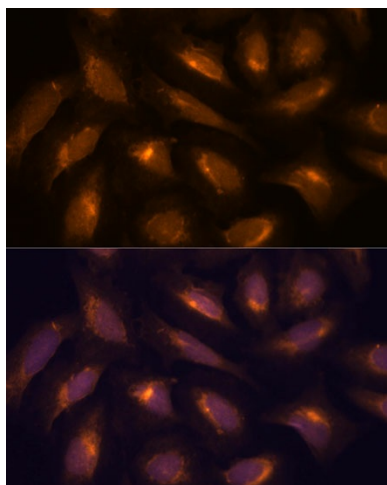
Western blot analysis of extracts of various cell lines, using Thioredoxin reductase 1 (Thioredoxin reductase 1 (TXNRD1)) antibody ([TA382967]) at 1:1000 dilution. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit. | Exposure time: 90s.



Immunofluorescence analysis of C6 cells using Thioredoxin reductase 1 (Thioredoxin reductase 1 (TXNRD1)) antibody ([TA382967]) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of L929 cells using Thioredoxin reductase 1 (Thioredoxin reductase 1 (TXNRD1)) antibody ([TA382967]) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U-2 OS cells using Thioredoxin reductase 1 (Thioredoxin reductase 1 (TXNRD1)) antibody ([TA382967]) at dilution of 1:100. Blue: DAPI for nuclear staining.