

## Product datasheet for **TA362609**

### **TXNRD1 Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	WB
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human TXNRD1
Specificity:	<b>Expected reactivity:</b> Human
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	54 kDa
Gene Name:	thioredoxin reductase 1
Database Link:	<a href="#">NP_001087240.1</a> <a href="#">Entrez Gene 7296 Human</a> <a href="#">Q16881-5</a>



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**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 homeostasis. 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.

**Synonyms:**

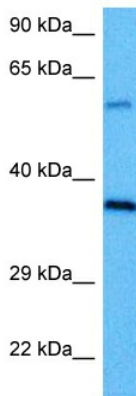
GRIM-12; KDRF; MGC9145; oxidoreductase; TR; TR1; TRXR1; TXNR

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Pyrimidine metabolism

**Product images:**

Host: Rabbit  
Target Name: TXNRD1  
Sample Type: HT1080 Cell Lysate  
Antibody Dilution: 1.0µg/ml

Host: Rabbit  
Target Name: TXNRD1  
Sample Tissue: Human HT1080 Whole Cell lysates  
Antibody Dilution: 1 ug/ml