

Product datasheet for **TA361903**

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:	Expected reactivity: 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:	NP_001087240.1 Entrez Gene 7296 Human Q16881-5



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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:

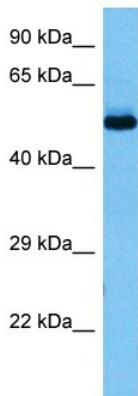
GRIM-12; KDRF; MGC9145; oxidoreductase; TR; TR1; TRXR1; TXNR

Protein Families:

Druggable Genome

Protein Pathways:

Pyrimidine metabolism

Product images:

Host: Rabbit
Target Name: TXNRD1
Sample Type: HCT116 Cell Lysate
Antibody Dilution: 1.0µg/ml

Host: Rabbit
Target Name: TXNRD1
Sample Tissue: Human HCT116 Whole Cell lysates
Antibody Dilution: 1ug/ml