

Thioredoxin Reductase 1 (TXNRD1) Antibody
Purified Rabbit Polyclonal Antibody
Catalog # ABV11645**Specification**

Thioredoxin Reductase 1 (TXNRD1) Antibody - Product Information

Application	WB
Primary Accession	Q16881
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	rabbit IgG
Calculated MW	70906

Thioredoxin Reductase 1 (TXNRD1) Antibody - Additional Information**Gene ID** 7296**Other Names**

Thioredoxin Reductase, GRIM-12, MGC9145, TR, TR1, TRXR1, TXNR

Target/Specificity

Thioredoxin Reductase 1 (TXNRD1)

Formulation

100 µg (0.5 mg/ml) of antibody in PBS pH 7.2, 0.01 % BSA, 0.03 % ProClin®, and 50 % glycerol.

Handling

The antibody solution should be gently mixed before use.

Background Descriptions**Precautions**

Thioredoxin Reductase 1 (TXNRD1) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Thioredoxin Reductase 1 (TXNRD1) Antibody - Protein Information**Name** TXNRD1 ([HGNC:12437](#))**Synonyms** GRIM12, KDRF**Function**

Reduces disulfideprotein thioredoxin (Trx) to its dithiol- containing form (PubMed:8577704). Homodimeric flavoprotein involved in the regulation of cellular redox reactions, growth and differentiation. Contains a selenocysteine residue at the C-terminal active site that is essential for catalysis

(Probable). Also has reductase activity on hydrogen peroxide (H₂O₂) (PubMed:10849437).

Cellular Location

[Isoform 1]: Cytoplasm [Isoform 5]: Cytoplasm

Tissue Location

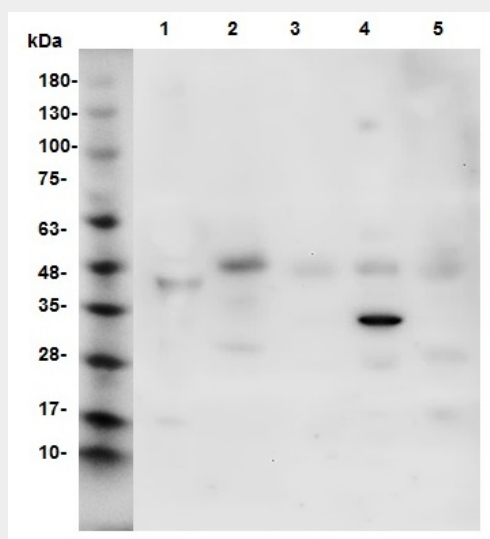
[Isoform 1]: Expressed predominantly in Leydig cells (at protein level). Also expressed in ovary, spleen, heart, liver, kidney and pancreas and in a number of cancer cell lines

Thioredoxin Reductase 1 (TXNRD1) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Thioredoxin Reductase 1 (TXNRD1) Antibody - Images



Western blot with human TXNRD1 antibody. Lane1: 22ug human serum; Lane2: 60ug 3T3 cell lysate; Lane3: 22ug mouse muscle; Lane4: 60ug rat kidney; Lane5: 80ug Rat liver.

Thioredoxin Reductase 1 (TXNRD1) Antibody - Background

Thioredoxin reductase 1 is an enzyme that in humans is encoded by the TXNRD1 gene. 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. Inhibition of TXNRD1 activity may provide for potential treatments of cancer, AIDS and other autoimmune diseases as well as bacterial infections and parasitic diseases.