

KD-Validated Anti-Thioredoxin reductase 2 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1491**Specification****KD-Validated Anti-Thioredoxin reductase 2 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	Q9NNW7
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 57 kDa, observed, 57 kDa
Gene Name	TXNRD2
Aliases	TXNRD2; Thioredoxin Reductase 2; TRXR2; Selenoprotein Z; SELZ; TR3; TR; Thioredoxin Reductase 2, Mitochondrial; Thioredoxin Reductase Beta; Thioredoxin Reductase TR3; EC 1.8.1.9 4; TXNR2; Thioredoxin Reductase 3; KIAA1652; EC 1.8.1; TR-BETA; TR-Beta; GCCD5; SelZ
Immunogen	A synthesized peptide derived from human TXNRD2

KD-Validated Anti-Thioredoxin reductase 2 Rabbit Monoclonal Antibody - Additional Information

Gene ID	10587
Other Names	
Thioredoxin reductase 2, mitochondrial, 1.8.1.9, Selenoprotein Z, SelZ, TR-beta, Thioredoxin reductase TR3, TXNRD2 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=18155)	
HGNC:18155, KIAA1652, TRXR2	

KD-Validated Anti-Thioredoxin reductase 2 Rabbit Monoclonal Antibody - Protein Information**Name** TXNRD2 ([HGNC:18155](#))**Synonyms** KIAA1652, TRXR2**Function**

Involved in the control of reactive oxygen species levels and the regulation of mitochondrial redox homeostasis (PubMed: <http://www.uniprot.org/citations/24601690>). Maintains thioredoxin in a reduced state. May play a role in redox-regulated cell signaling.

Cellular Location

Mitochondrion.

Tissue Location

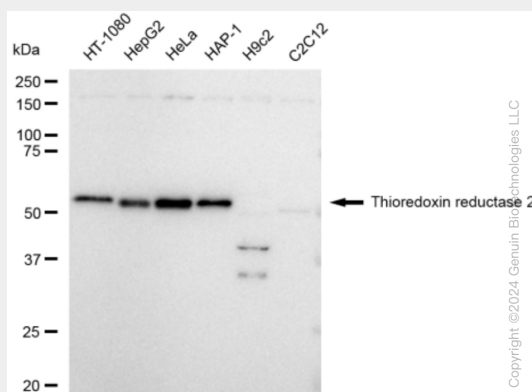
Highly expressed in the prostate, ovary, liver, testis, uterus, colon and small intestine. Intermediate levels in brain, skeletal muscle, heart and spleen. Low levels in placenta, pancreas, thymus and peripheral blood leukocytes. According to PubMed:10608886, high levels in kidney, whereas according to PubMed:9923614, levels are low. High expression is observed in the adrenal cortex (PubMed:24601690).

KD-Validated Anti-Thioredoxin reductase 2 Rabbit Monoclonal Antibody - Protocols

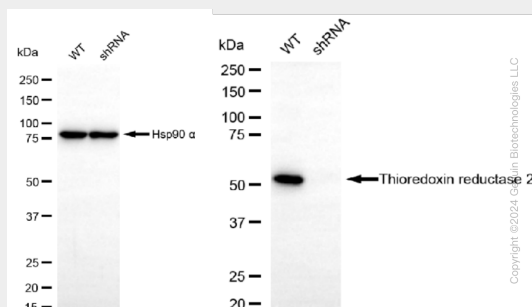
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-Thioredoxin reductase 2 Rabbit Monoclonal Antibody - Images

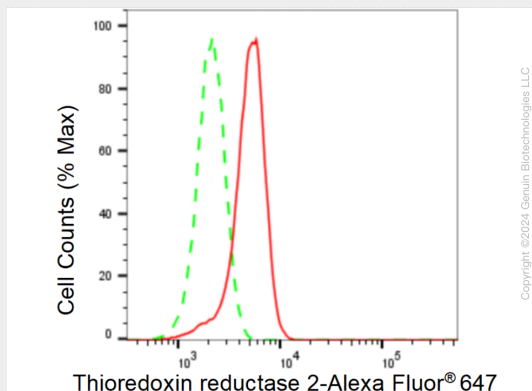


Western blotting analysis using anti-Thioredoxin reductase 2 antibody (Cat#AGI1491). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Thioredoxin reductase 2 antibody (Cat#AGI1491, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Thioredoxin reductase 2 antibody (Cat#AGI1491). Thioredoxin reductase 2 expression in wild type (WT) and Thioredoxin reductase 2 shRNA

knockdown (KD) HT-1080 cells with 30 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Thioredoxin reductase 2 antibody (Cat#AGI1491, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Thioredoxin reductase 2 expression in HeLa cells using Thioredoxin reductase 2 antibody (Cat#AGI1491, 1:2,000). Green, isotype control; red, Thioredoxin reductase 2.