

**TXNRD2 Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AP52761**

**Specification**

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**TXNRD2 Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">O9NNW7</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>56 KDa</b>

**TXNRD2 Antibody - Additional Information**

**Gene ID** 10587

**Other Names**

mitochondrial;selenoprotein Z;SELZ;Thioredoxin reductase 2;Thioredoxin reductase 2 mitochondrial;thioredoxin reductase 3;thioredoxin reductase beta;Thioredoxin reductase TR3;TR 3;TR;TR beta;TR-beta;TRXR 2;TRXR2;TRXR2\_HUMAN;TXNRD 2;Txnrd2.

**Dilution**

WB~~1:1000

**Format**

ascites

**Storage**

Store at -20 °C.Stable for 12 months from date of receipt

**TXNRD2 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:<a href="http://www.uniprot.org/citations/24601690" target="\_blank">24601690</a>). Maintains thioredoxin in a reduced state. May play a role in redox- regulated cell signaling.

**Cellular Location**

Mitochondrion.

**Tissue Location**

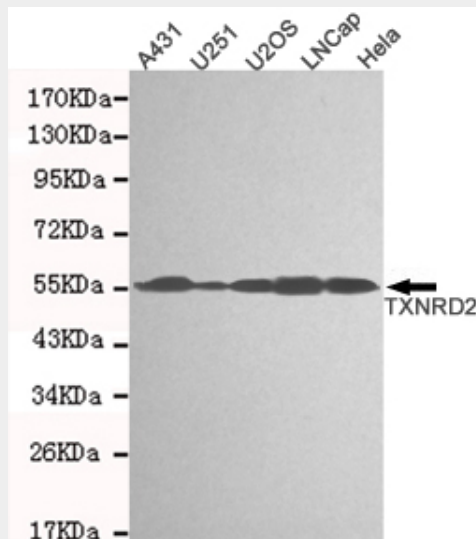
Highly expressed in the prostate, ovary, liver, testis, uterus, colon and small intestine. Intermediate levels in brain, skeletal muscle, heart and spleen. Low levels in placenta, pancreas, thymus and peripheral blood leukocytes. According to PubMed:10608886, high levels in kidney, whereas according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

### TXNRD2 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](#)

### TXNRD2 Antibody - Images



Western blot detection of TXNRD2 in A431,U251,U2OS,Lncap and HeLa cell lysates and using TXNRD2 mouse mAb (1:1000 diluted). Predicted band size: 56kDa. Observed band size: 56kDa.

### TXNRD2 Antibody - Background

Maintains thioredoxin in a reduced state. Implicated in the defenses against oxidative stress. May play a role in redox- regulated cell signaling.

### TXNRD2 Antibody - References

- Sun Q.-A., et al. *J. Biol. Chem.* 274:24522-24530(1999).  
Gasdaska P.Y., et al. *FEBS Lett.* 442:105-111(1999).  
Miranda-Vizueté A., et al. *Eur. J. Biochem.* 261:405-412(1999).  
Toji S., et al. Submitted (NOV-1998) to the EMBL/GenBank/DDBJ databases.  
Lescure A., et al. *J. Biol. Chem.* 274:38147-38154(1999).