

**TRXR2 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50191****Specification**

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**TRXR2 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC                |
| Primary Accession | <a href="#">Q9NNW7</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 57, KDa                |
| Antigen Region    | 493-522                |

**TRXR2 Antibody - Additional Information****Gene ID** 10587**Other Names**

Thioredoxin reductase 2, mitochondrial, Selenoprotein Z, SelZ, TR-beta, Thioredoxin reductase TR3, TXNRD2, KIAA1652, TRXR2

**Dilution**

WB~~ 1:500-1:1000

IHC~~1:50-1:100

**Format**Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.**Storage Conditions**

-20°C

**TRXR2 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> target="\_blank">24601690</a>). Maintains thioredoxin in a reduced state. May play a role in redox- regulated cell signaling.**Cellular Location**

Mitochondrion.

### Tissue Location

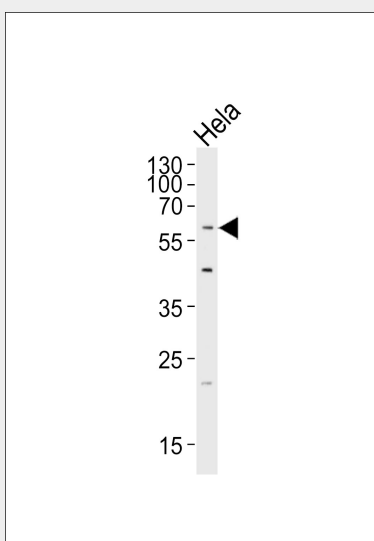
Highly expressed in the prostate, ovary, liver, testis, uterus, colon and small intestine. Intermediate levels in brain, skeletal muscle, heart and spleen. Low levels in placenta, pancreas, thymus and peripheral blood leukocytes. According to PubMed:10608886, high levels in kidney, whereas according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

### TRXR2 Antibody - Protocols

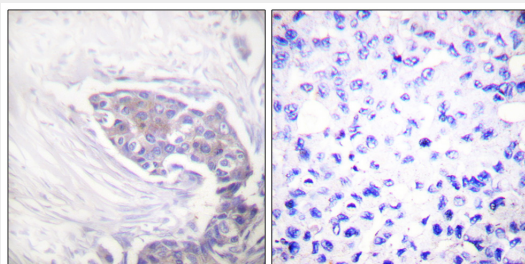
Provided below are standard protocols that you may find useful for product applications.

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

### TRXR2 Antibody - Images



Western blot analysis of lysate from HeLa cell line, using TRXR2 Antibody (C0378). C0378 was diluted at 1:1000. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35 µg.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue using TRXR2 antibody.

**TRXR2 Antibody - Background**

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

**TRXR2 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-Vizuite 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).