

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

Specification

TRXR2 Antibody - Product Information

Application	WB, IHC
Primary Accession	O9NNW7
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 Mg²⁺ and Ca²⁺), 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:24601690). Maintains thioredoxin in a reduced state. May play a role in redox- regulated cell signaling.

Cellular Location

Mitochondrion.

Tissue Location

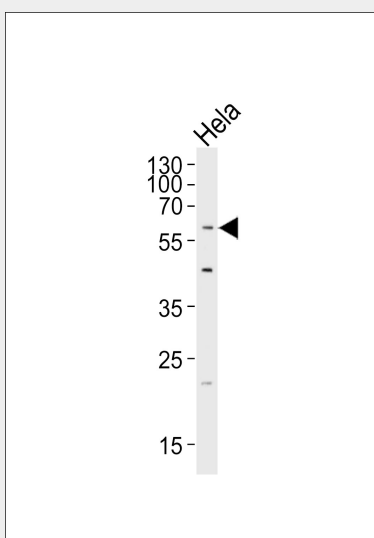
Highly expressed in the prostate, ovary, liver, testis, uterus, colon and small intestine. Intermediate levels in brain, skeletal muscle, heart and spleen. Low levels in placenta, pancreas, thymus and peripheral blood leukocytes. According to PubMed:10608886, high levels in kidney, whereas according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

TRXR2 Antibody - Protocols

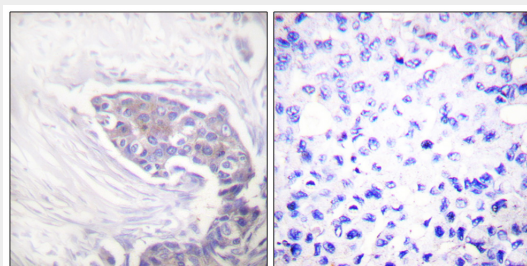
Provided below are standard protocols that you may find useful for product applications.

- [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).