

Anti-TXNRD2 Antibody
Rabbit polyclonal antibody to TXNRD2
Catalog # AP59800

Specification

Anti-TXNRD2 Antibody - Product Information

Application	WB
Primary Accession	O9NNW7
Reactivity	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56507

Anti-TXNRD2 Antibody - Additional Information

Gene ID 10587

Other Names

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

Target/Specificity

Recognizes endogenous levels of TXNRD2 protein.

Dilution

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

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

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

Cellular Location

Mitochondrion.

Tissue Location

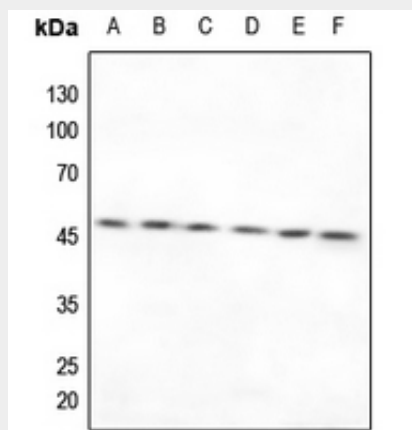
Highly expressed in the prostate, ovary, liver, testis, uterus, colon and small intestine. Intermediate levels in brain, skeletal muscle, heart and spleen. Low levels in placenta, pancreas, thymus and peripheral blood leukocytes. According to PubMed:10608886, high levels in kidney, whereas according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

Anti-TXNRD2 Antibody - Protocols

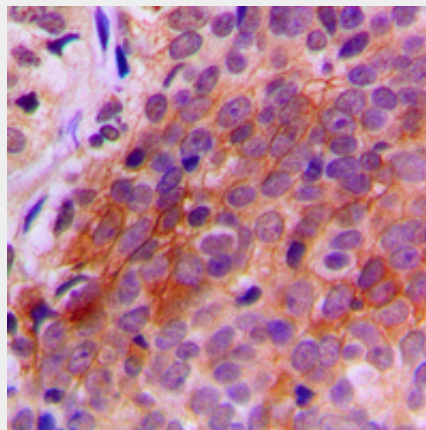
Provided below are standard protocols that you may find useful for product applications.

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

Anti-TXNRD2 Antibody - Images



Western blot analysis of TXNRD2 expression in HEK293T (A), HGC27 (B), mouse lung (C), mouse liver (D), rat lung (E), rat liver (F) whole cell lysates.



Immunohistochemical analysis of TXNRD2 staining in human breast cancer formalin fixed paraffin

embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-TXNRD2 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human TXNRD2. The exact sequence is proprietary.