

Anti-TXNRD2 Antibody

Rabbit polyclonal antibody to TXNRD2

Catalog # AP59800

Product Information

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|-------------------|---------------------------|
| Application | WB, IHC |
| Primary Accession | Q9NNW7 |
| Reactivity | Human, Mouse, Rat, Monkey |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 56507 |

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

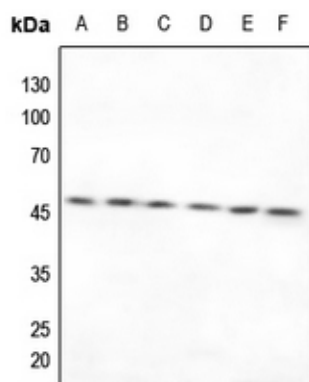
Protein Information

| | |
|-------------------|--|
| 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 |

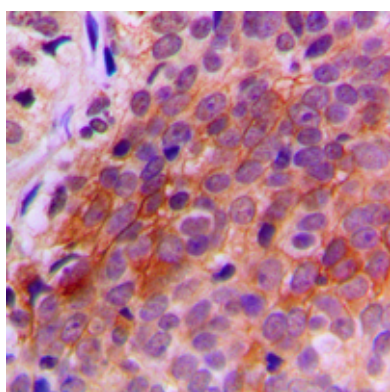
Background

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

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.

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