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TXNRD2 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52761

Product Information

Application	WB
Primary Accession	Q9NNW7
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	56507

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	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

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).

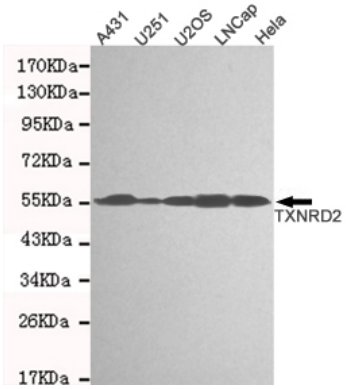
Background

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

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-Vizuete 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).

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.

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