

TXNRD2 monoclonal antibody

Catalog: MB66540

Host: Mouse

Reactivity: Human

BackGround:

Thioredoxin reductases are selenoproteins that are critical for maintaining cellular redox balance and eliminating reactive oxygen species (ROS). There are three known mammalian thioredoxin reductases: TRXR1/TXNRD1 (cytosolic), TRXR2/TXNRD2 (mitochondrial), and TRXR3/TXNRD3 (testis-specific). TRXR2 may function to protect against tumor necrosis factor- α (TNF- α)-mediated ROS generation. TRXR2 is critical for normal heart development and function. TRXR2 KO mice experience embryonic lethality, while mitochondrial dysfunction seen in heart-specific TRXR2 KO mice results in congestive heart failure. In humans, certain rare mutations in TRXR2 have been linked to dilated cardiomyopathy. A recent study in the EPIC-Heidelberg cohort shows that serum selenium levels, in concert with certain SNPs in TRXR2 and other selenoproteins, can influence prostate cancer risk.

Product:

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

Molecular Weight:

~ 56 kDa

Swiss-Prot:

Q9NNW7

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

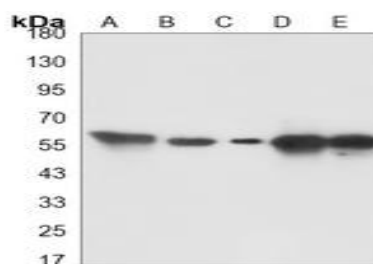
WB (1/500 - 1/1000)

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of TXNRD2 protein.

DATA:

Western blot analysis of TXNRD2 expression in A431 (A), U251 (B), U2OS (C), Lncap (D), HeLa (E) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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