

TXNRD3 Antibody(Center) Blocking peptide
Synthetic peptide
Catalog # BP19608c**Specification**

TXNRD3 Antibody(Center) Blocking peptide - Product InformationPrimary Accession [Q86VQ6](#)**TXNRD3 Antibody(Center) Blocking peptide - Additional Information****Gene ID** 114112**Other Names**

Thioredoxin reductase 3, Thioredoxin and glutathione reductase, Thioredoxin reductase TR2, TXNRD3 {ECO:0000312|EMBL:AAH500321}

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TXNRD3 Antibody(Center) Blocking peptide - Protein Information**Name** TXNRD3 {ECO:0000312|EMBL:AAH50032.1, ECO:0000312|HGNC:HGNC:20667}**Function**

Displays thioredoxin reductase, glutaredoxin and glutathione reductase activities. Catalyzes disulfide bond isomerization. Promotes disulfide bond formation between GPX4 and various sperm proteins and may play a role in sperm maturation by promoting formation of sperm structural components (By similarity).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q99MD6}. Nucleus {ECO:0000250|UniProtKB:Q99MD6}. Microsome {ECO:0000250|UniProtKB:Q99MD6}. Endoplasmic reticulum Note=Detected in cytoplasm and nucleus in late spermatids {ECO:0000250|UniProtKB:Q99MD6}

TXNRD3 Antibody(Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

TXNRD3 Antibody(Center) Blocking peptide - Images**TXNRD3 Antibody(Center) Blocking peptide - Background**

This gene encodes a member of the family of pyridinenucleotide oxidoreductases. This protein catalyzes the reduction of thioredoxin, and is implicated in the defense against oxidative stress. It contains a selenocysteine (Sec) residue (which is essential for catalytic activity), encoded by a UGA codon, at the penultimate C-terminal position. The 3' UTR of Sec-containing genes have a common stem-loop structure, the sec insertion sequence (SECIS), which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

TXNRD3 Antibody(Center) Blocking peptide - References

Gerashchenko, M.V., et al. J. Biol. Chem. 285(7):4595-4602(2010) Starr, J.M., et al. Mech. Ageing Dev. 129(12):745-751(2008) Harris, S.E., et al. BMC Genet. 8, 43 (2007) :Kryukov, G.V., et al. Science 300(5624):1439-1443(2003) Sun, Q.A., et al. Proc. Natl. Acad. Sci. U.S.A. 98(7):3673-3678(2001)