

**TXNRD3 Antibody(Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP19608c****Specification**

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**TXNRD3 Antibody(Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q86VQ6</a>
Other Accession	<a href="#">NP_001166984.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	304-333

**TXNRD3 Antibody(Center) - Additional Information****Gene ID** 114112**Other Names**

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

**Target/Specificity**

This TXNRD3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 304-333 amino acids from the Central region of human TXNRD3.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

TXNRD3 Antibody(Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**TXNRD3 Antibody(Center) - Protein Information****Name** TXNRD3 {ECO:0000312|EMBL:AAH50032.1}

**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

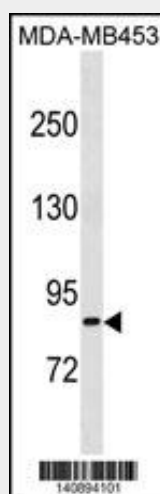
Cytoplasm {ECO:0000250|UniProtKB:Q99MD6}. Nucleus {ECO:0000250|UniProtKB:Q99MD6}. Microsome {ECO:0000250|UniProtKB:Q99MD6}. Endoplasmic reticulum Note=Detected in cytoplasm and nucleus in late spermatids {ECO:0000250|UniProtKB:Q99MD6}

#### TXNRD3 Antibody(Center) - 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](#)

#### TXNRD3 Antibody(Center) - Images



TXNRD3 Antibody (Center) (Cat. #AP19608c) western blot analysis in MDA-MB453 cell line lysates (35ug/lane). This demonstrates the TXNRD3 antibody detected the TXNRD3 protein (arrow).

#### TXNRD3 Antibody(Center) - Background

This gene encodes a member of the family of pyridine nucleotide 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) - 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)