

TXNDC3 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13625c**Specification**

TXNDC3 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q8N427](#)**TXNDC3 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 51314**Other Names**Thioredoxin domain-containing protein 3, NM23-H8, NME/NM23 family member 8,
Spermatid-specific thioredoxin-2, Sptrx-2, NME8, SPTRX2, TXNDC3**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP13625c was selected from the Center region of TXNDC3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

TXNDC3 Antibody (Center) Blocking peptide - Protein Information**Name** NME8 ([HGNC:16473](#))**Synonyms** SPTRX2, TXNDC3**Function**

Probably required during the final stages of sperm tail maturation in the testis and/or epididymis, where extensive disulfide bonding of fibrous sheath (FS) proteins occurs. In vitro, it has neither nucleoside diphosphate kinase (NDPK) activity nor reducing activity on disulfide bonds (PubMed:11737268). Exhibits a 3'-5' exonuclease activity with a preference for single-stranded DNA, suggesting roles in DNA proofreading and repair (PubMed:16313181).

Cellular Location

Cytoplasm.

Tissue Location

Testis-specific. Expressed only in primary spermatocytes and round spermatids.

TXNDC3 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

TXNDC3 Antibody (Center) Blocking peptide - Images**TXNDC3 Antibody (Center) Blocking peptide - Background**

This gene encodes a protein with an N-terminal thioredoxin domain and three C-terminal nucleoside diphosphate kinase (NDK) domains, but the NDK domains are thought to be catalytically inactive. The sea urchin ortholog of this gene encodes a component of sperm outer dynein arms, and the protein is implicated in ciliary function. Mutations in this gene are implicated in primary ciliary dyskinesia type 6.

TXNDC3 Antibody (Center) Blocking peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Zintzaras, E., et al. Am. J. Epidemiol. 171(8):851-858(2010) Desvignes, T., et al. BMC Evol. Biol. 9, 256 (2009) :Shi, D., et al. Arthritis Res. Ther. 10 (3), R54 (2008) :Duriez, B., et al. Proc. Natl. Acad. Sci. U.S.A. 104(9):3336-3341(2007)