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# TDRD1 Antibody (C-term) Blocking peptide

**Synthetic peptide**
**Catalog # BP11148b**

## Specification

### TDRD1 Antibody (C-term) Blocking peptide - Product Information

Primary Accession Q9BXT4

### TDRD1 Antibody (C-term) Blocking peptide - Additional Information

**Gene ID** 56165

**Other Names**
Tudor domain-containing protein 1, Cancer/testis antigen 411, CT411, TDRD1

**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.

### TDRD1 Antibody (C-term) Blocking peptide - Protein Information

**Name** TDRD1

**Function**
Plays a central role during spermatogenesis by participating in the repression transposable elements and preventing their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons. Required for the localization of Piwi proteins to the meiotic nuage. Involved in the piRNA metabolic process by ensuring the entry of correct transcripts into the normal piRNA pool and limiting the entry of cellular transcripts into the piRNA pathway. May act by allowing the recruitment of piRNA biogenesis or loading factors that ensure the correct entry of transcripts and piRNAs into Piwi proteins (By similarity).

**Cellular Location**
Cytoplasm. Note=Component of the meiotic nuage, also named P granule, a germ-cell-specific organelle required to repress transposon activity during meiosis. Also present in chromatoid body (By similarity).

**Tissue Location**
Testis and ovary specific. Also expressed in several cancers.

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## TDRD1 Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

## TDRD1 Antibody (C-term) Blocking peptide - Images

## TDRD1 Antibody (C-term) Blocking peptide - Background

This gene is similar to a mouse gene that encodes a tudordomain protein. Alternatively spliced transcript variants have beendescribed but their full length sequences have not been determined.

## TDRD1 Antibody (C-term) Blocking peptide - References

Wu, C., et al. Proteomics 7(11):1775-1785(2007)Wang, A.G., et al. Biochem. Biophys. Res. Commun. 345(3):1022-1032(2006)Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006)Wang, P.J., et al. Nat. Genet. 27(4):422-426(2001)