

**TNP2 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12809b****Specification**

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**TNP2 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q05952</a>
Other Accession	<a href="#">NP_005416.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	15641
Antigen Region	88-116

**TNP2 Antibody (C-term) - Additional Information****Gene ID** 7142**Other Names**

Nuclear transition protein 2, TP-2, TP2, TNP2

**Target/Specificity**

This TNP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 88-116 amino acids from the C-terminal region of human TNP2.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**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**

TNP2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**TNP2 Antibody (C-term) - Protein Information****Name** TNP2**Function** Plays a key role in the replacement of histones to protamine in the elongating

spermatids of mammals. In condensing spermatids, loaded onto the nucleosomes, where it promotes the recruitment and processing of protamines, which are responsible for histone eviction.

#### Cellular Location

Nucleus {ECO:0000250|UniProtKB:P11101}. Nucleus, nucleolus {ECO:0000250|UniProtKB:P11101}. Chromosome {ECO:0000250|UniProtKB:P11101}. Note=Loaded onto the nucleosomes of condensing spermatids (By similarity). Nuclear import is mediated by IPO4. Nucleolar localization requires the protein to be phosphorylated (By similarity). {ECO:0000250|UniProtKB:P11101, ECO:0000250|UniProtKB:P11378}

#### Tissue Location

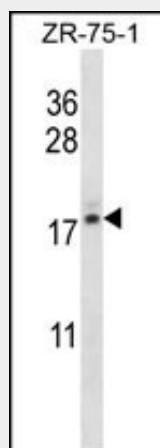
Expressed by spermatids (at protein level).

### TNP2 Antibody (C-term) - 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](#)

### TNP2 Antibody (C-term) - Images



TNP2 Antibody (C-term) (Cat. #AP12809b) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the TNP2 antibody detected the TNP2 protein (arrow).

### TNP2 Antibody (C-term) - Background

In the elongating spermatids of mammals, the conversion of nucleosomal chromatin to the compact, non-nucleosomal form found in the sperm nucleus is associated with the appearance of a small set of basic chromosomal transition proteins.

### TNP2 Antibody (C-term) - References

Aston, K.I., et al. Hum. Reprod. 25(6):1383-1397(2010)  
Khatti, A., et al. Int. J. Androl. (2010) In press :  
Pradeepa, M.M., et al. J. Biol. Chem. 284(43):29956-29967(2009)  
Cooper, J.D., et al. Nat. Genet. 40(12):1399-1401(2008)  
Becker, S., et al. Andrologia 40(4):203-208(2008)