

TNP2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12809b

Product Information

Application	WB, E
Primary Accession	Q05952
Other Accession	NP_005416.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32333
Calculated MW	15641
Antigen Region	88-116

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.

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).

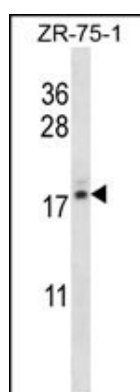
Background

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.

References

Aston, K.I., et al. Hum. Reprod. 25(6):1383-1397(2010)
 Khattri, 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)

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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.