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TNP2 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP12809b

Specification

TNP2 Antibody (C-term) Blocking peptide - Product Information

Primary Accession Q05952

TNP2 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 7142

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

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.

TNP2 Antibody (C-term) Blocking peptide - 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) Blocking peptide - Protocols

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

- Blocking Peptides

TNP2 Antibody (C-term) Blocking peptide - Images

TNP2 Antibody (C-term) Blocking peptide - 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) Blocking peptide - 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)