

**NASP Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP4911a****Specification**

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**NASP Antibody (N-term) Blocking peptide - Product Information**

Primary Accession [P49321](#)

**NASP Antibody (N-term) Blocking peptide - Additional Information**

**Gene ID** 4678

**Other Names**

Nuclear autoantigenic sperm protein, NASP, NASP

**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.

**NASP Antibody (N-term) Blocking peptide - Protein Information**

**Name** NASP

**Function**

Required for DNA replication, normal cell cycle progression and cell proliferation. Forms a cytoplasmic complex with HSP90 and H1 linker histones and stimulates HSP90 ATPase activity. NASP and H1 histone are subsequently released from the complex and translocate to the nucleus where the histone is released for binding to DNA.

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:Q99MD9}. Nucleus {ECO:0000250|UniProtKB:Q99MD9}

**Tissue Location**

Isoform 1 is testis- and sperm-specific.

**NASP Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**NASP Antibody (N-term) Blocking peptide - Images****NASP Antibody (N-term) Blocking peptide - Background**

NASP encodes a H1 histone binding protein that is involved in transporting histones into the nucleus of dividing cells. Multiple isoforms are encoded by transcript variants of this gene. The somatic form is expressed in all mitotic cells, is localized to the nucleus, and is coupled to the cell cycle. The testicular form is expressed in embryonic tissues, tumor cells, and the testis. In male germ cells, this protein is localized to the cytoplasm of primary spermatocytes, the nucleus of spermatids, and the periacrosomal region of mature spermatozoa.

**NASP Antibody (N-term) Blocking peptide - References**

Alekseev, O.M., et al. Reprod. Biol. Endocrinol. 7, 45 (2009) Wang, H., et al. Nucleic Acids Res. 36(18):5763-5772(2008) Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)