NASP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NASP, Polyclonal Antibody
Full Product Name	NASP, NT (NASP, Nuclear autoantigenic sperm protein) (MaxLight 650)
Product Gene Name	anti-NASP antibody
Product Synonym Names	NASP; Nuclear autoantigenic sperm protein
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Peptide Immunoaffinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	788
OMIM	603185
3D Structure	ModBase 3D Structure for P49321
Immunogen	NASP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between amino acid 160-190 from the N-terminal region of human NASP.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-NASP antibody	Antibodies; Spermatogenesis; Testis Proteins
Applications Tested/Suitable for anti-NASP antibody	Flow Cytometry (FC/FACS), FLISA, Western Blot (WB)
Application Notes for anti-NASP antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 WB: 1:50-100 Applications are based on unconjugated antibody.
Related Product Information for anti-NASP antibody	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.
Product References and Citations for anti-NASP antibody	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).

Other Notes	Small volumes of anti-NASP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NASP purchase	MBS6323877 is an antibody targeting NASP. Also known as NASP, NT (NASP, Nuclear autoantigenic sperm protein) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NASP. It may not necessarily be applicable to this product.

NCBI GI #	23503077
NCBI GeneID	4678
NCBI Accession #	P49321.2
UniProt Primary Accession #	P49321
UniProt Secondary Accession #	Q53GW5; Q5T622; Q5T625; Q96A69; Q9BTW2; A8K6H2; B4DQP3; D3DQ07; F5H3J2
UniProt Related Accession #	P49321
NCBI Official Full Name	Nuclear autoantigenic sperm protein
NCBI Official Synonym Full Names	nuclear autoantigenic sperm protein (histone-binding)
NCBI Official Symbol	NASP
NCBI Official Synonym Symbols	FLB7527; PRO1999
UniProt Protein Name	Nuclear autoantigenic sperm protein
Protein Family	Nuclear autoantigenic sperm protein
UniProt Gene Name	NASP
UniProt Synonym Gene Names	NASP
UniProt Entry Name	NASP_HUMAN
NCBI Protein Information	nuclear autoantigenic sperm protein; histone H1-binding protein
NCBI Summary for NASP	This gene 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. [provided by RefSeq, Jul 2008]
UniProt Comments for NASP	NASP: 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. Belongs to the NASP family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation Chromosomal Location of Human Ortholog: 1p34.1 Cellular Component: nucleoplasm; protein complex; cytoplasm; nuclear chromatin; nucleus Molecular Function: histone binding; Hsp90 protein binding Biological Process: cell proliferation; blastocyst development; protein transport; DNA replication-independent nucleosome assembly; histone exchange; cell cycle; DNA replication; DNA replication-dependent nucleosome assembly

Research Articles on NASP	**1.** NASP family Proteins are highly conserved throughout the eukaryotes and posses four TPR motifs. It was likely present in the last common ancestor of eukaryotes possibly representing an important innovation regarding H3/H4 transport mechanism. Different TPR motifs in NASP have evolved at different rates with TPR1/4 evolving faster than TPR2/3.
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