

MNS1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP5794a**Specification**

MNS1 Antibody (N-term) Blocking peptide - Product Information

Primary Accession [O8NEH6](#)
Other Accession [NP_060835.1](#)

MNS1 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 55329

Other Names

Meiosis-specific nuclear structural protein 1, MNS1

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.

MNS1 Antibody (N-term) Blocking peptide - Protein Information

Name MNS1 ([HGNC:29636](#))

Function

Microtubule inner protein (MIP) part of the dynein-decorated doublet microtubules (DMTs) in cilia axoneme, which is required for motile cilia beating (PubMed:36191189). May play a role in the control of meiotic division and germ cell differentiation through regulation of pairing and recombination during meiosis. Required for sperm flagella assembly (By similarity). May play a role in the assembly and function of the outer dynein arm-docking complex (ODA-DC). ODA-DC mediates outer dynein arms (ODA) binding onto the axonemal doublet microtubules (PubMed:30148830).

Cellular Location

Nucleus {ECO:0000250|UniProtKB:Q61884}. Cytoplasm, cytoskeleton, cilium axoneme. Cytoplasm, cytoskeleton, flagellum axoneme. Note=Microtubule inner protein (MIP) part of the dynein-decorated doublet microtubules (DMTs) in cilia axoneme. {ECO:0000250|UniProtKB:Q2KIQ2}

Tissue Location

Expressed in nasal respiratory epithelium and in the sperm.

MNS1 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

MNS1 Antibody (N-term) Blocking peptide - Images**MNS1 Antibody (N-term) Blocking peptide - Background**

MNS1 is a protein highly similar to the mouse meiosis-specific nuclear structural 1 protein. The mouse protein was shown to be expressed at the pachytene stage during spermatogenesis and may function as a nuclear skeletal protein to regulate nuclear morphology during meiosis.

MNS1 Antibody (N-term) Blocking peptide - References

Shakib, K., et al. Proteomics 5(11):2819-2838(2005) Hotta, Y., et al. Adv. Biophys. 31, 101-115 (1995) : Furukawa, K., et al. Chromosome Res. 2(2):99-113(1994)