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SPNXB Blocking Peptide (Center)

Synthetic peptide
Catalog # BP20242c

Specification

SPNXB Blocking Peptide (Center) - Product Information

Primary Accession	Q9NS25
Other Accession	Q9NY87, Q9NS26, NP_663697.1

SPNXB Blocking Peptide (Center) - Additional Information

Gene ID 728695

Other Names
Sperm protein associated with the nucleus on the X chromosome B/F, Cancer/testis antigen 112, CT112, Nuclear-associated protein SPAN-Xb, SPANX-B, Nuclear-associated protein SPAN-Xf, SPANX-F, SPANX family member B/F, SPANXB1, SPANXB

Target/Specificity
The synthetic peptide sequence is selected from aa 32-47 of HUMAN SPANXB1

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.

SPNXB Blocking Peptide (Center) - Protein Information

Name SPANXB1 (HGNC:14329)

Cellular Location
Cytoplasm. Nucleus. Note=Associated with nuclear craters

Tissue Location
Detected in testis and sperm.

SPNXB Blocking Peptide (Center) - Protocols

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

- Blocking Peptides

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SPNXB Blocking Peptide (Center) - Images

SPNXB Blocking Peptide (Center) - Background

Temporally regulated transcription and translation of several testis-specific genes is required to initiate the series of molecular and morphological changes in the male germ cell lineage necessary for the formation of mature spermatozoa. This gene is a member of the SPANX family of cancer/testis-associated genes, which are located in a cluster on chromosome X. The SPANX genes encode differentially expressed testis-specific proteins that localize to various subcellular compartments. This particular gene maps to chromosome X in a head-to-tail orientation with SPANX family member B1 and appears to be a duplication of that locus. The SPANXB genes are unique members of this gene family, since they contain an additional 18 nt in their coding region compared to the majority of family members. Although the protein encoded by this gene contains consensus nuclear localization signals, the major site for subcellular localization of expressed protein is in the cytoplasmic droplets of ejaculated spermatozoa. This protein provides a biochemical marker for studying the unique structures in spermatazoa, while attempting to further define its role in spermatogenesis.

SPNXB Blocking Peptide (Center) - References

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Kouprina, N., et al. Genome Res. 15(11):1477-1486(2005)
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Zendman, A.J., et al. Gene 309(2):125-133(2003)