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SPNXB Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20242c

Specification

SPNXB Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q9NS25
Other Accession	Q9NY87, Q9NS26, NP_663697.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**11840**
Antigen Region	**17-47**

SPNXB Antibody (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
This SPNXB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 17-47 amino acids from the Central region of human SPNXB.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
SPNXB Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

SPNXB Antibody (Center) - Protein Information

Name SPANXB1 (HGNC:14329)

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

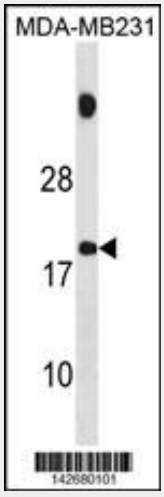
Tissue Location
Detected in testis and sperm.

SPNXB Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SPNXB Antibody (Center) - Images



SPNXB Antibody (Center) (Cat. #AP20242c) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the SPNXB antibody detected the SPNXB protein (arrow).

SPNXB Antibody (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 Antibody (Center) - References

Hansen, S., et al. Syst Biol Reprod Med 55, 18-26 (2010) :
Hansen, M.A., et al. Mol. Reprod. Dev. 75(2):219-229(2008)
Kouprina, N., et al. Genome Res. 15(11):1477-1486(2005)
Ross, M.T., et al. Nature 434(7031):325-337(2005)
Zendman, A.J., et al. Gene 309(2):125-133(2003)