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SPNXB Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20242c

Product Information

Application	WB, E
Primary Accession	Q9NS25
Other Accession	Q9NY87, Q9NS26, NP_663697.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB42680
Calculated MW	11840
Antigen Region	17-47

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.

Protein Information

Name	SPANXB1 (HGNC:14329)
Cellular Location	Cytoplasm. Nucleus. Note=Associated with nuclear craters

Tissue Location Detected in testis and sperm.

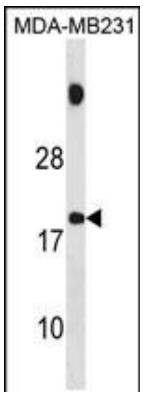
Background

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.

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)

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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.