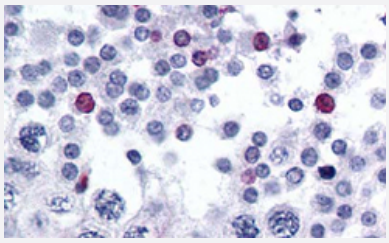
SPANXC polyclonal antibody

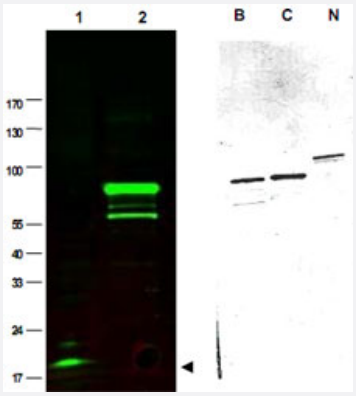
Catalog # PAB11268 Size 500 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of SPANXC polyclonal antibody (Cat # PAB11268) was used at 2.5 ug/mL to detect signal in a variety of tissues including multi-human, multi-brain and multi-cancer slides.
This image shows moderate positive staining of human sperm and spermatids at 60X.
Tissue was formalin-fixed and paraffin embedded.
The image shows localization of the antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain.
Personal Communication, Tina Roush, Life Span Biosciences, Seattle, WA.



Western Blot

Western blot using SPANXC polyclonal antibody (Cat # PAB11268) shows detection of a band at ~17 KDa corresponding to SPANXC present in a nuclear extract from VWM105 cells (left panel, arrowhead).
VWM105 cells are derived from a human melanoma and are positive for SPANX proteins.
Lane 2 shows reactivity with a purified recombinant SPANXC fusion protein.
The right panel shows similar reactivity with purified recombinant SPANXB, SPANXC and SPANXN proteins.
Proteins were separated by SDS-PAGE, transferred to nitrocellulose, and probed with the primary antibody diluted to 1 : 1,000.
IRDye™800 conjugated Gt-a-Rabbit IgG [H&L] MX was used (left).
IRDye is a trademark of LI-COR, Inc.
Size estimation was made by comparison to prestained MW markers as indicated.
Personal Communication. Vladimir Larionov, NIH, CCR, Bethesda, MD.

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Specification

Product Description	Rabbit polyclonal antibody raised against full length recombinant SPANXC.
Immunogen	Recombinant protein corresponding to full length human SPANXC.
Host	Rabbit
Reactivity	Chimpanzee, Gorilla, Human
Specificity	This Protein A purified antibody is directed against human SPANX-C protein.
Form	Lyophilized
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	ELISA (1:5000-1:20000) Western Blot (1:1000-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 20 mM KH_2PO_4, 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot after reconstitution to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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  Personal Communication, Tina Roush, Life Span Biosciences, Seattle, WA.

- Enzyme-linked Immunoabsorbent Assay

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Gene Info — SPANXC

Entrez GeneID	64663
Protein Accession#	CAD29839;CAB75344;CAI41662;Q9NY87
Gene Name	SPANXC
Gene Alias	C, CTp11, SPANX-C
Gene Description	SPANX family, member C
Omim ID	300330
Gene Ontology	Hyperlink
Gene Summary	Temporally regulated transcription and translation of several testis-specific genes is required to in itiate 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, which is lo cated in a gene cluster on chromosome X. The SPANX genes encode differentially expressed te stis-specific proteins that localize to various subcellular compartments. This particular gene encod es a protein that localizes to the nucleus and is expressed in highly metastatic cell lines, making th e protein a potential diagnostic and prognostic marker. The protein belongs to a family of cancer/t estis antigens and represents a potential target for cancer immunotherapy. [provided by RefSeq
Other Designations	OTTHUMP00000024173|SPAN-Xc protein|cancer-testis-associated protein CTp11|cancer/testis -associated protein of 11 kD|sperm protein associated with the nucleus, X chromosome, family m ember C

Publication Reference

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- Dynamic structure of the SPANX gene cluster mapped to the prostate cancer susceptibility locus HPCX at Xq27.

  Kouprina N, Pavlicek A, Noskov VN, Solomon G, Otstot J, Isaacs W, Carpten JD, Trent JM, Schleutker J, Barrett JC, Jurka J, Larionov V.

  Genome Research 2005 Nov; 15(11):1477.

- The SPANX gene family of cancer/testis-specific antigens: rapid evolution and amplification in African great apes and hominids.

  Kouprina N, Mullokandov M, Rogozin IB, Collins NK, Solomon G, Otstot J, Risinger JI, Koonin EV, Barrett JC, Larionov V.

  PNAS 2004 Mar; 101(9):3077.

- Genomic organization, incidence, and localization of the SPAN-x family of cancer-testis antigens in melanoma tumors and cell lines.

  Westbrook VA, Schoppee PD, Diekman AB, Klotz KL, Allietta M, Hogan KT, Slingluff CL, Patterson JW, Frierson HF, Irvin WP Jr, Flickinger CJ, Coppola MA, Herr JC.

  Clinical Cancer Research 2004 Jan; 10(1 Pt 1):101.

  Application: IEM, IHC-P, WB, Human , Human skin tumors, Human spermatozoa, Human testis

Disease

- Azoospermia
- Infertility
- Oligospermia

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