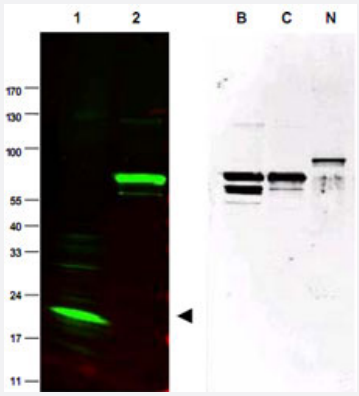
SPANXC polyclonal antibody

Catalog # PAB11267 Size 100 ug

Applications



Western Blot

Western blot using SPANXC polyclonal antibody (Cat # PAB11267) shows detection of a band at ~17 KDacorresponding to SPANXC present in a nuclear extract from VWM105 cells (left panel, arrowhead).
VWM105 cells arederived from a human melanoma and arepositive 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 separatedby 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 asindicated.
Personal Communication. Vladimir Larionov, NIH, CCR, Bethesda, MD.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of SPANXC.
Immunogen	A synthetic peptide corresponding to amino acids 31-47 of human SPANXC.
Host	Rabbit
Reactivity	Chimpanzee, Gorilla, Human
Specificity	This affinity-purified antibody is directed against human SPANX proteins. The immunogen sequence is present within SPANX-A, SPANX-B, SPANX-C, SPANX-D and SPANX-N, but not present within SPANX-E.
Form	Liquid

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Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:10000-1:50000) Western Blot (1:500-1:3000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 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 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

- Enzyme-linked Immunoabsorbent Assay
- Western Blot

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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

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Gene Summary	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, which is located in a gene cluster on chromosome X. The SPANX genes encode differentially expressed testis-specific proteins that localize to various subcellular compartments. This particular gene encodes a protein that localizes to the nucleus and is expressed in highly metastatic cell lines, making the protein a potential diagnostic and prognostic marker. The protein belongs to a family of cancer/testis 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 member C

Publication Reference

- 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.

- The human SPANX multigene family: genomic organization, alignment and expression in male germ cells and tumor cell lines.

  Zendman AJ, Zschocke J, van Kraats AA, de Wit NJ, Kurpisz M, Weidle UH, Ruiter DJ, Weiss EH, van Muijen GN.

  Gene 2003 May; 309(2):125.

Disease

- Azoospermia
- Infertility
- Oligospermia

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