

Recombinant Human SPANXA1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SPANXA1-4536H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SPANXA1 MS Standard C13 and N15-labeled recombinant protein (NP_038481) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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-head orientation with SPANX family member A2, which appears to be a duplication of the A1 locus. The protein encoded by this gene targets to the nucleus where it associates with nuclear vacuoles and the redundant nuclear envelope. Based on its association with these poorly characterized regions of the sperm nucleus, this protein provides a biochemical marker to study unique structures in spermatazoa while attempting to further define its role in spermatogenesis.
Molecular Mass	11 kDa

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AA Sequence	MDKQSSAGGVKRSVPCDSNEANEMMPETPTGSDPQPAPKKMKTSESSTILVVRY RRNFKRTSPEELLNDHARENRLNPLQMEEEEFMEIMVEIPAKTRTRPLEQKLISEEDL AANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	SPANXA1 sperm protein associated with the nucleus, X-linked, family member A1 [Homo sapiens (human)]
Official Symbol	SPANXA1
Synonyms	SPANXA1; sperm protein associated with the nucleus, X-linked, family member A1; NAP-X; SPANX; CT11.1; CT11.3; SPAN-X; SPAN-Xa; SPAN-Xb; SPANX-A; sperm protein associated with the nucleus on the X chromosome A; Cancer/testis antigen 11.3; Cancer/testis-associated protein CTp11; Nuclear-associated protein SPAN-Xc; SPANX family member A; SPANX family, member A1; Sperm protein associated with the nucleus on the X chromosome C; cancer/testis antigen 11.1; cancer/testis antigen family 11, member 1; nuclear-associated protein SPAN-Xa; sperm protein associated with the nucleus, X chromosome, family member A1

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Gene ID	30014
mRNA Refseq	NM_013453
Protein Refseq	NP_038481
MIM	300305
UniProt ID	Q9NS26
SDS-PAGE	