Recombinant Full Length Human SPANXA1 Protein, C-Flag-tagged

Cat. No. SPANXA1-1830HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SPANXA1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass	10.9 kDa
AA Sequence	MDKQSSAGGVKRSVPCDSNEANEMMPETPTGDSDPQPAPKKMKTSESSTILVVRY RRNFKRTSPEELLND HARENRINPLQMEEEEFMEIMVEIPAK TRTRPLEQKLISEED LAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

Gene Name	SPANXA1 sperm protein associated with the nucleus, X-linked, family member A1 [Homo sapiens (human)]
Official Symbol	SPANXA1
Synonyms	NAP-X; SPANX; CT11.1; CT11.3; SPAN-X; SPAN-Xa; SPAN-Xb; SPANX-A
Gene ID	30014

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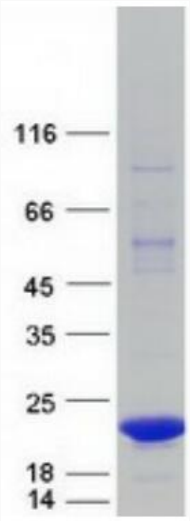
mRNA Refseq	NM_013453.3
Protein Refseq	NP_038481.2
MIM	300305
UniProt ID	Q9NS26



Coomassie blue staining of purified SPANXA1 protein.

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