

Product datasheet for TP317728

SPAG1 (NM_003114) Human Recombinant Protein

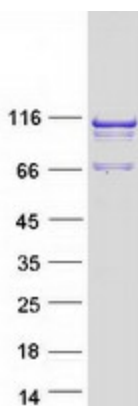
Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human sperm associated antigen 1 (SPAG1), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC217728 representing NM_003114 <div> <div>Red</div>=Cloning site <div>Green</div>=Tags(s) </div> <p> MTTKDYP SLWGF GTTKTFK IPIEHLDFKYIEKCS DVKHLEKILCVLRSGEEGYPELTFCEKHLQALAP ESRALRKDKPAATAASFTAEWEKIDGDIKSWVSEIKKEEDKMHFHETETFPAMKDNLPVVRGSNSCLHV GKEKYSKRPTKKKTPRDYAEWDKFDVEKECLKIDEDYKEKTVIDKSHLSKIETRIDTAGLTEKEKDFLAT REKEKGNEAFNSGDYEEAVMYTRISALPTVWAYNNRAQAEIKLQNWNSAFQDCEKVLELEPGNVKALL RRATTYKHQNKLREATEDLSKVLDVEPDNDLAKKTLSEVERDLKNSEAASETQTKGKRMVIQEIENSEDE EGKSGRKHEDGGGDKKPAEPAGAAARAAQPCVMGNIQKKLTGKAEGGKRPARGAPQRGQTPEAGADKRS PR RASAAAAAGGGATGHPGGGQGAENPAGLKSQGNELFRSGQFAEAAGKYSAAIALLEPAGSEIADDLSILY SNRAACYLKEGNCSGCIQDCNRALELHPFSMKPLLRRAMAYETLEQYGKAYVDYKTVLQIDCGLQLANDS VNRLSRILMELDGPNWREKLSPIPAVPASVPLQAWHPAKEMISKQAGDSSSHRQQGITDEKTFKALKEEG NQCVNDKNYKDALSKYSECLKINNKECAIYTNRALCYLKLCQFEEAKQDCDQALQLADGNVKAFYRRALA HKGLKNYQKSLIDLNVILLDPSIIEAKMELEEVTLLNLKDKTAPFNKEKERRKIEIQEVNEGKEEPGR PAGEVSMGCLASEKGGKSSRSPEDPEKLPIAKPNNAYEFGQIINALSTRKDKEACAHLLAITAPKDLPMF LSNKLEGDTFLLLIQSLKNNLIEKDPSLVYQHLLYLSKAERFKMMLTLISKGQKELIEQLFEDLSDTNN HFTLEDIQALKRQYEL <div> <div>TR</div> <div>TRPLEQKLISEEDLAANDILDYKDDDDKV</div> </div> </p>
Tag:	C-Myc/DDK
Predicted MW:	103.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol


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Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_003105</u>
Locus ID:	6674
UniProt ID:	<u>Q07617</u>
RefSeq Size:	3870
Cytogenetics:	8q22.2
RefSeq ORF:	2778
Synonyms:	CILD28; CT140; DNAAF13; HEL-S-268; HSD-3.8; SP75; TPIS
Summary:	The correlation of anti-sperm antibodies with cases of unexplained infertility implicates a role for these antibodies in blocking fertilization. Improved diagnosis and treatment of immunologic infertility, as well as identification of proteins for targeted contraception, are dependent on the identification and characterization of relevant sperm antigens. The protein expressed by this gene is recognized by anti-sperm agglutinating antibodies from an infertile woman. Furthermore, immunization of female rats with the recombinant human protein reduced fertility. This protein localizes to the plasma membrane of germ cells in the testis and to the post-acrosomal plasma membrane of mature spermatozoa. Recombinant polypeptide binds GTP and exhibits GTPase activity. Thus, this protein may regulate GTP signal transduction pathways involved in spermatogenesis and fertilization. Two transcript variants of this gene encode the same protein. [provided by RefSeq, Jul 2008]

Product images:



Coomassie blue staining of purified SPAG1 protein (Cat# TP317728). The protein was produced from HEK293T cells transfected with SPAG1 cDNA clone (Cat# [RC217728]) using MegaTran 2.0 (Cat# [TT210002]).