

Product datasheet for PH317728

SPAG1 (NM_003114) Human Mass Spec Standard

Product data:

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| Product Type: | Mass Spec Standards |
| Description: | SPAG1 MS Standard C13 and N15-labeled recombinant protein (NP_003105) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC217728 |
| Predicted MW: | 103.5 kDa |
| Protein Sequence: | >RC217728 representing NM_003114 Red=Cloning site Green=Tags(s) |

MTTKDYPSLWGFGTKTFKIPKIEHLDFKYIEKCSVDKHLKILCVLRSGEEGYPELTFCEKHLQALAP
ESRALRKDKPAATAASFTAEEWEKIDGDIKSWSEIKKEEDKMHFHEETETFPAMKDNLPPVRSNSCLHV
GKEKYSKRPTKKKTPRDYAEWDFDVEKECLKIDEDYKEKTVIDKSHLSKIETRIDTAGLTEKEKDFLAT
REKEKGFNEAFNSGDYEEAVMYTRISALPTVVAYNNRAQAEIKLQNWNSAFQDCEKVLLEPGNVKALL
RRATTYKHQNKLRATEDLSKVLDPDNDLAKKTLSEVERDLKNSEAASETQTKGKRMVIEIENSEDE
EGKSGRKHEDGGGDKPAEPAGAARAAQPCVMGNIQKLLTGKAEQKRPARGAPQRGQTPEAGADKRSR
RASAAAAAGGGATGHPGGGQGAENPAGLKSQGNELFRSQGFAEAAGKYSAAIALLEPAGSEIADDLSILY
SNRAACYLKEGNCSGCIQDCNRALELHPFSMKPLLRAMAYETLEQYGKAYVDYKTVLQIDCGLQLANDS
VNRLSRILMELDGNWREKLSPIPAVPASVPLQAWHPAKEMISKQAGDSSSHRQQGITDEKTFKALKEEG
NQCVDNKYKDALSKYSECLKINNKECAIYTNRALCYLKLQCFEEAKQDCDQALQLADGNVKAFFRRALA
HKGLKNYQKSLIDLNVILLDPSIIIEAKMELEEVTLLNLKDKTAPFNKEKERRKIEIQEVNEGKEEPGR
PAGEVSMGCLASEKGGKSSRSPEDPEKLPKAPNNAYEFQGIINALSTRKDKEACAHLLAITAPKDLPMF
LSNKLEGDTFLLLIQSLKNNLIEKDPVYQHLLYLSKAERFKMMLTLISKGQKELIEQLFEDLSDTPNN
HFTLEDIQALKRQYEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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| Tag: | C-Myc/DDK |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Labeling Method: | Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| Storage: | Store at -80°C. Avoid repeated freeze-thaw cycles. |
| Stability: | Stable for 3 months from receipt of products under proper storage and handling conditions. |

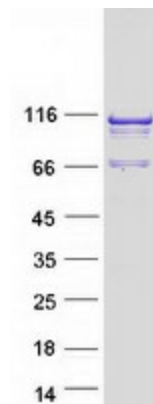


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| | |
|---------------|--|
| RefSeq: | NP_003105 |
| RefSeq Size: | 3870 |
| RefSeq ORF: | 2778 |
| Synonyms: | CILD28; CT140; DNAAF13; HEL-S-268; HSD-3.8; SP75; TPIS |
| Locus ID: | 6674 |
| UniProt ID: | Q07617 |
| Cytogenetics: | 8q22.2 |

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]).