



# Recombinant Human Sperm-associated antigen 6 (SPAG6)

<b>Product Code</b>	CSB-YP022467HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O75602
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MSQRQVLQVF EQYQKARTQF VQMVAELATR PQNIETLQNA GVMSLLRLL LDVVPTIQQT AALALGRLAN YNDLAEAVV KCDILPQLVY SLAEQNRFYK KAAAFVLRV GKHSPQLAQA IVDGALDTL VICLEDFDPG VKEAAAWALR YIARHNAELS QAVVDAGAVP LLVLCIQEPE IALKRIAASA LSDIAKHSPE LAQTVVDAGA VAHLAQMILN PDAKCLKHQIL SALSQVSKHS VDLAEMVVEA EIFPVVLTCL KDKDEYVKN ASTLIREIAK HPELSQLVV NAGGVAVID CIGSCKGNTR LPGIMMLGYV AAHSENLAMA VIISKGVPQL SVCLSEEPED HIKAAAVAL GQIGRHTPEH ARAVAVTNTL PVLLSLYMST ESSEDLQVKS KKAIKNILQK CTYLPALPEF LYDAPPNLIK HVVGQFSKVL PHDSKARRLF VTSGGLKKVQ EIKAEPSLL QEYINSINSC YPEEIVRYYS PGYSDTLLQR VDSYQPLNN
<b>Source</b>	Yeast
<b>Target Names</b>	SPAG6
<b>Protein Names</b>	Recommended name: Sperm-associated antigen 6 Alternative name(s): Protein PF16 homolog Repro-SA-1 Sperm flagellar protein
<b>Expression Region</b>	1-509
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	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 antibodies from an infertile man. This protein localizes to the tail of permeabilized human sperm and contains eight contiguous armadillo repeats, a motif known to mediate protein-protein interactions. Studies in mice suggest that this protein is involved in sperm flagellar motility and maintenance of the structural integrity of mature sperm. Alternatively spliced variants that encode different protein isoforms have been described but the full-length sequences of



only two have been determined.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.