

# Recombinant Full Length Human sperm autoantigenic protein 17, His-tagged

**Cat. No.** SPA17-530H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | SPA17, 1-151aa, Human, His tag, E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 1-151 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | SPA17 is a protein present at the cell surface. The N-terminus has sequence similarity to human cAMP-dependent protein kinase A (PKA) type II alpha regulatory subunit (RIIa) while the C-terminus has an IQ calmodulin-binding motif. The central portion of the protein has carbohydrate binding motifs and likely functions in cell-cell adhesion. The protein was initially characterized by its involvement in the binding of sperm to the zona pellucida of the oocyte. Recent studies indicate that it is also involved in additional cell-cell adhesion functions such as immune cell migration and metastasis. Recombinant human SPA17 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 19.8 kDa (174aa) confirmed by MALDI-TOF(Molecular size on SDS-PAGE will appear higher)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                         |                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSM SIPFSN THYRIPQGFG NLLEGLTREI<br>LREQPDNIPA FAAAYFESLL EKREKTNFDP AEWGSKVEDR FYNNHAFEEQ<br>EPPEKSDPKQ EESQISGKEE ETSVTILDSS EEDKEKEEVA AVKIQA AFRG<br>HIAREEAKKM KTNSLQNEEK EENK |
| <b>Purity</b>           | >90% by SDS - PAGE                                                                                                                                                                                         |
| <b>Storage</b>          | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.                                                         |
| <b>Concentration</b>    | 1 mg/ml (determined by Bradford assay)                                                                                                                                                                     |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                            |
| <b>Gene Name</b>        | SPA17 sperm autoantigenic protein 17 [ Homo sapiens ]                                                                                                                                                      |
| <b>Official Symbol</b>  | SPA17                                                                                                                                                                                                      |
| <b>Synonyms</b>         | SPA17; sperm autoantigenic protein 17; sperm surface protein Sp17; cancer/testis antigen 22; CT22; SP17; sperm protein 17; SP17-1;                                                                         |
| <b>Gene ID</b>          | 53340                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>      | NM_017425                                                                                                                                                                                                  |
| <b>Protein Refseq</b>   | NP_059121                                                                                                                                                                                                  |
| <b>MIM</b>              | 608621                                                                                                                                                                                                     |
| <b>UniProt ID</b>       | Q15506                                                                                                                                                                                                     |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                                |                                                   |
|--------------------------------|---------------------------------------------------|
| <b>Chromosome<br/>Location</b> | 11q24.2                                           |
| <b>Function</b>                | cAMP-dependent protein kinase regulator activity; |