

#### OriGene Technologies, Inc.

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# Product datasheet for TA338243

## SPAG1 Rabbit Polyclonal Antibody

## **Product data:**

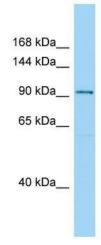
| Product Type:           | Primary Antibodies  |
|-------------------------|---|
| Applications:           | WB  |
| Recommended Dilution:   | WB  |
| Reactivity:             | Human   |
| Host:                   | Rabbit  |
| lsotype:                | IgG   |
| Clonality:              | Polyclonal  |
| Immunogen:              | The immunogen for anti-SPAG1 antibody is: synthetic peptide directed towards the C-<br>terminal region of Human SPAG1. Synthetic peptide located within the following region:<br>KIEIQEVNEGKEEPGRPAGEVSMGCLASEKGGKSSRSPEDPEKLPIAKPN |
| Formulation:            | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.<br>Note that this product is shipped as lyophilized powder to China customers.  |
| Purification:           | Affinity Purified   |
| Conjugation:            | Unconjugated  |
| Storage:                | Store at -20°C as received.   |
| Stability:              | Stable for 12 months from date of receipt.  |
| Predicted Protein Size: | 104 kDa   |
| Gene Name:              | sperm associated antigen 1  |
| Database Link:          | <u>NP_003105</u><br><u>Entrez Gene 6674 Human</u><br><u>Q07617</u>  |



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|             | SPAG1 Rabbit Polyclonal Antibody – TA338243  |
|-------------|--|
| Background: | The correlation of anti-sperm antibodies with cases of unexplained infertility implicates a role<br>for these antibodies in blocking fertilization. Improved diagnosis and treatment of<br>immunologic infertility, as well as identification of proteins for targeted contraception, are<br>dependent on the identification and characterization of relevant sperm antigens. The protein<br>expressed by this gene is recognized by anti-sperm agglutinating antibodies from an infertile<br>woman. Furthermore, immunization of female rats with the recombinant human protein<br>reduced fertility. This protein localizes to the plasma membrane of germ cells in the testis and<br>to the post-acrosomal plasma membrane of mature spermatozoa. Recombinant polypeptide<br>binds GTP and exhibits GTPase activity. Thus, this protein may regulate GTP signal<br>transduction pathways involved in spermatogenesis and fertilization. |
| Synonyms:   | CILD28; CT140; HEL-S-268; HSD-3.8; SP75; TPIS  |
| Note:       | Immunogen Sequence Homology: Human: 100%   |

## **Product images:**



WB Suggested Anti-SPAG1 Antibody; Titration: 1.0 ug/ml; Positive Control: Fetal kidney

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