



Anti-SPAG1 (aa 175-283) polyclonal antibody (DPAB-DC2947)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	<p>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.</p>
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Immunogen	<p>SPAG1 (NP_003105, 175 a.a. ~ 283 a.a) partial recombinant protein with GST tag. The sequence is EDYKEKTVIDKSHLSKIETRIDTAGLTEKEKDFLATREKEKGNFNSGDYEEAVMYYTR SISALPTVVAYNNRAQAEIKLQNWNSAFQDCEKVLLEPGNVKALLRRA</p>
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	SPAG1 sperm associated antigen 1 [Homo sapiens (human)]
Official Symbol	SPAG1
Synonyms	SPAG1; sperm associated antigen 1; SP75; TPIS; CT140; CILD28; HSD-3.8; sperm-associated antigen 1; infertility-related sperm protein Spag-1; tetratricopeptide repeat-containing protein; TPR-containing protein involved in spermatogenesis;
Entrez Gene ID	6674
Protein Refseq	NP_003105
UniProt ID	Q07617
Chromosome Location	8q22.2
Function	GTP binding; hydrolase activity;