

SPAG6 Polyclonal Antibody

Catalog NumberPA5-30318

Product data sheet

Details		Tested Applications	Dilution *
Size	100 µL	Immunohistochemistry (Paraffin) (IHC (P)) Western Blot (WB)	1:100-1:1,000
Host/Isotope	Rabbit / IgG		1:500-1:3,000
Class	Polyclonal	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Type	Antibody		
Immunogen	Recombinant protein fragment corresponding to a region within amino acids 4 and 209 of Human SPAG6		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: NT2D1, IMR32, U87-MG, MCF-7. Predicted reactivity: Human (98%), Mouse (92%), Rat (95%), Zebrafish (87%), Xenopus laevis (92%), Pig (95%), Chicken (89%), Chimpanzee (98%), Bovine (95%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

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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