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# SPAG17 Rabbit pAb

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Catalog # AP94693

## Product Information

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| **Application** | IHC-P, IHC-F, IF |
| **Primary Accession** | Q6Q759 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 251742 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human SPAG17 |
| **Epitope Specificity** | 741-840/2223 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SUBCELLULAR LOCATION** | Cytoplasm. Cytoplasm > cytoskeleton > flagellum axoneme. Detected in the cytoplasm of round spermatids and in condensing spermatids. Localized to the central pair of the sperm flagellar axoneme. Colocalizes with SPAG6 on microtubules. |
| **SUBUNIT** | Interacts (via the C-terminus) with SPAG6; the interaction probably occurs on polymerized microtubules (By similarity). |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | SPAG17 (sperm associated antigen 17), also known as PF6, is a 2,223 amino acid cytoplamic protein that colocalizes with SPAG6 to microtubles. Highly expressed in testis and in organs that contain cilia-bearing cells including brain, oviduct, lung, and uterus, SPAG17 may be important for the structural integrity of the central apparatus of the sperm axoneme. SPAG17 contains two LRR (leucine-rich) repeats and may also participate in flagellar motility and male fertility. |

## Additional Information

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| **Gene ID** | 200162 |
| **Other Names** | Sperm-associated antigen 17, Projection protein PF6 homolog, SPAG17 |
| **Target/Specificity** | Highly expressed in testis. Expressed in organs that contain cilia-bearing cells including brain, oviduct, lung, and uterus. |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1ug/Test |
| **Format** | 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce |

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| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| **Name** | SPAG17 |
| **Function** | Component of the central pair apparatus of ciliary axonemes. Plays a critical role in the function and structure of motile cilia. May play a role in endochondral bone formation, most likely because of a function in primary cilia of chondrocytes and osteoblasts (By similarity). Essential for normal spermatogenesis and male fertility (By similarity). Required for normal manchette structure, transport of proteins along the manchette microtubules and formation of the sperm head and flagellum (By similarity). Essential for sperm flagellum development and proper assembly of the respiratory motile cilia central pair apparatus, but not the brain ependymal cilia (By similarity). |
| **Cellular Location** | Cytoplasm {ECO:0000250\|UniProtKB:Q5S003}. Cytoplasm, cytoskeleton, flagellum axoneme {ECO:0000250\|UniProtKB:Q5S003}. Cytoplasmic vesicle, secretory vesicle, acrosome {ECO:0000250\|UniProtKB:Q5S003}. Golgi apparatus {ECO:0000250\|UniProtKB:Q5S003}. Cytoplasm, cytoskeleton {ECO:0000250\|UniProtKB:Q5S003}. Note=Detected in the cytoplasm of round spermatids and in condensing spermatids. Localized to the central pair of the sperm flagellar axoneme. Colocalizes with SPAG6 on microtubules (By similarity). Localizes to the manchette in elongating spermatids (By similarity). {ECO:0000250\|UniProtKB:Q5S003} |
| **Tissue Location** | Highly expressed in testis. Expressed in organs that contain cilia-bearing cells including brain, oviduct, lung, and uterus. |

## Background

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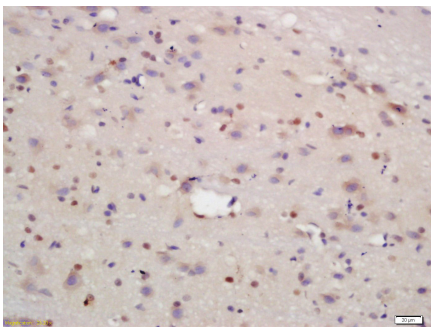
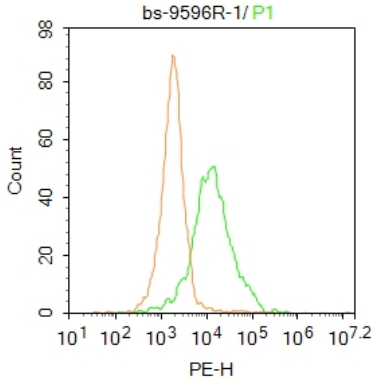
## Images



Tissue/cell: mouse brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-SPAG17 Polyclonal Antibody, Unconjugated(AP94693) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Blank control: HL60. Primary Antibody (green line): Rabbit Anti-SPAG17 antibody (AP94693) Dilution: 1 µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 1 µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with PBST




for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.