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[Primary Antibody]

Rabbit Anti-SPAG16 antibody

Catalog Number: SL11485R

FOR RESEARCH USE ONLY

[DATASHEET]

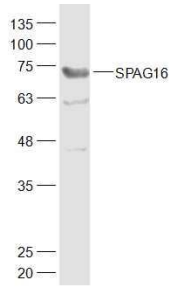
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	SPAG16
Immunogen:	KLH conjugated synthetic peptide derived from human SPAG16: 439-485/631
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, Rat, (predicted: Human, Dog, Cow, Horse, Rabbit, Sheep)
Predicted MW.:	71kDa
Subcellular Location:	cytoplasmic
Background:	Cilia and flagella are comprised of a microtubular backbone, the axoneme, which is organized by the basal body and surrounded by plasma membrane. SPAG16 encodes 2 major proteins that associate with the axoneme of sperm tail and the nucleus of postmeiotic germ cells, respectively (Zhang et al., 2007 [PubMed 17699735]).[supplied by OMIM, Jul 2008] **Function:** Necessary for sperm flagellar function. Plays a role in motile ciliogenesis. May help to recruit STK36 to the cilium or apical surface of the cell to initiate subsequent steps of construction of the central pair apparatus of motile cilia **Subunit:** Interacts with SPAG6 and STK36 **Subcellular Location:** Cytoplasm. Cytoplasm, cytoskeleton, flagellum axoneme. Cytoplasm, cytoskeleton, cilium axoneme. Note=Detected on the

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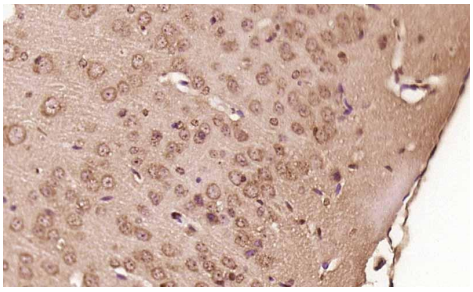
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	sperm flagellum axoneme. Detected in the central apparatus of the axoneme. Colocalizes with SPAG6 on microtubules. **Tissue Specificity:** Isoform 1 is detected in testis. Isoform 4 is detected in testis and brain, and at lower levels in kidney, heart, pancreas, thyroid, ovary, adrenal gland, spinal cord, trachea and liver. **Post-translational modifications:** Phosphorylated by TSSK2 **Similarity:** Contains 7 WD repeats. **Database links:** **Entrez Gene:** 79582 Human **Entrez Gene:** 66722 Mouse Omim: 612173 Human **SwissProt:** Q8N0X2 Human **SwissProt:** Q8K450 Mouse

[VALIDATION IMAGES]



Sample:
Testis (Rat) Lysate at 40 ug
Primary: Anti-SPAG16 (SL11485R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 71 kD
Observed band size: 71 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SPAG16) Polyclonal Antibody, Unconjugated (SL11485R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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