



Rabbit Anti-SPAG16 antibody

SL11485R

Product Name:	SPAG16
Chinese Name:	精子相关蛋白16抗体
Alias:	PF20; p20 protein homolog; sperm associated antigen 16; sperm associated WD repeat protein; WD repeat domain 29; WRD29; SPG16 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	71kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SPAG16:439-485/631
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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 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.

SWISS:

Q8N0X2

Gene ID:

79582

Database links:

[Entrez Gene: 79582](#)Human

[Entrez Gene: 66722](#)Mouse

[Oimim: 612173](#)Human

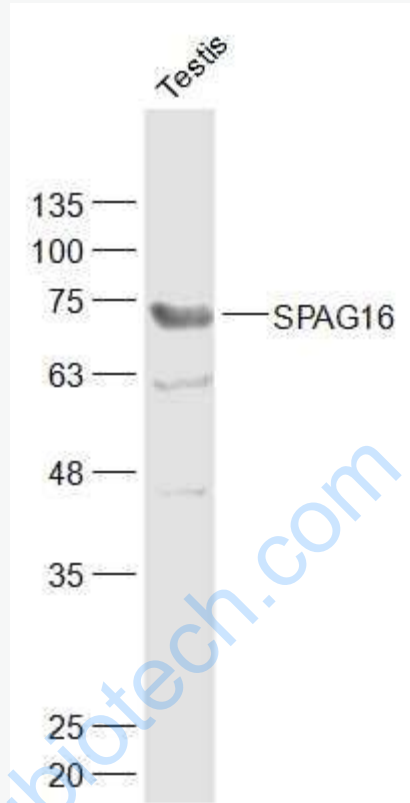
[SwissProt: Q8N0X2](#)Human

[SwissProt: Q8K450](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

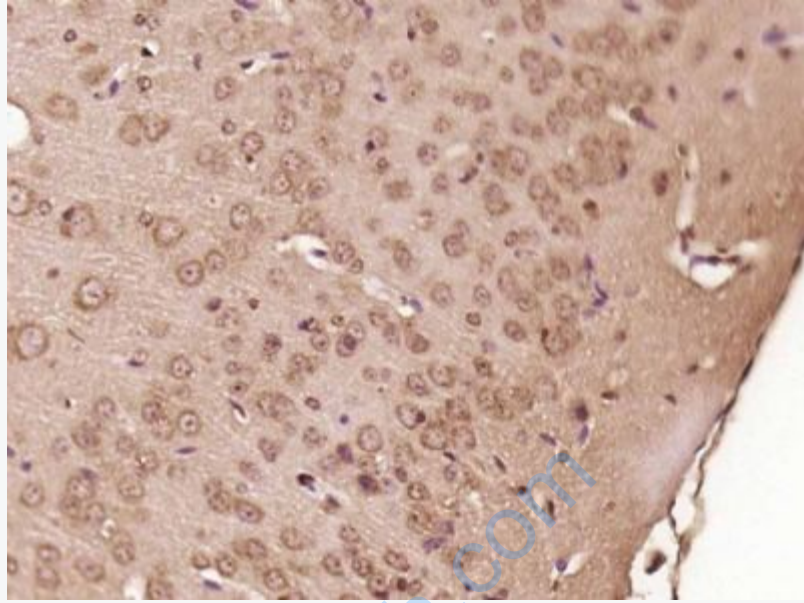
Testis (Rat) Lysate at 40 ug

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) instructions and DAB staining.