

SPAG16 (aa139-152) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3105a**Specification**

SPAG16 (aa139-152) Antibody (internal region) - Product Information

Application	E
Primary Accession	Q8N0X2
Other Accession	NP_078808.3 , NP_001020607.1 , 79582
Predicted	Human, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	70818

SPAG16 (aa139-152) Antibody (internal region) - Additional Information**Gene ID** 79582**Other Names**

Sperm-associated antigen 16 protein, Pf20 protein homolog, SPAG16, PF20

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SPAG16 (aa139-152) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

SPAG16 (aa139-152) Antibody (internal region) - Protein Information**Name** SPAG16**Synonyms** PF20**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 (By similarity).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q8K450}. Cytoplasm, cytoskeleton, flagellum axoneme

{ECO:0000250|UniProtKB:Q8K450}. Cytoplasm, cytoskeleton, cilium axoneme
{ECO:0000250|UniProtKB:Q8K450}. Cell projection, cilium, flagellum
{ECO:0000250|UniProtKB:Q8K450}. Note=Detected on the sperm flagellum axoneme. Detected in the central apparatus of the axoneme. Colocalizes with SPAG6 on microtubules (By similarity)
{ECO:0000250|UniProtKB:Q8K450}

Tissue Location

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.

SPAG16 (aa139-152) Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SPAG16 (aa139-152) Antibody (internal region) - Images

SPAG16 (aa139-152) Antibody (internal region) - Background

This antibody is expected to recognize isoform 1 and 2 (NP_078808.3; NP_001020607.1).

SPAG16 (aa139-152) Antibody (internal region) - References

A heterozygous mutation disrupting the SPAG16 gene results in biochemical instability of central apparatus components of the human sperm axoneme. Zhang Z, Zariwala MA, Mahadevan MM, Caballero-Campo P, Shen X, Escudier E, Duriez B, Bridoux AM, Leigh M, Gerton GL, Kennedy M, Amselem S, Knowles MR, Strauss JF, Biology of reproduction 2007 Nov 77 (5): 864-71. PMID: 17699735