SPG16 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SPG16, Polyclonal Antibody
Full Product Name	SPG16, ID (SPAG16, PF20, Sperm-associated antigen 16 protein, Pf20 protein homolog) (MaxLight 750)
Product Gene Name	anti-SPG16 antibody
Product Synonym Gene Name	SPAG16
Product Synonym Names	SPAG16; PF20; Sperm-associated antigen 16 protein; Pf20 protein homolog
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	39,739 Da
OMIM	612173
3D Structure	ModBase 3D Structure for Q8N0X2
Immunogen	SPG16 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 284-314 amino acids from the Central region of human SPG16.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-SPG16 antibody	Antibodies; Spermatogenesis; Testis Proteins
Applications Tested/Suitable for anti-SPG16 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-SPG16 antibody	IHC: 1:50-100 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-SPG16 antibody	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.
Product References and Citations for anti-SPG16 antibody	Zhang, Z., et al. Biol. Reprod. 77(5):864-871(2007). Zhang, Z., et al. Mol. Cell. Biol. 22(22):7993-8004(2002). Pennarun, G., et al. Am. J. Respir. Cell Mol. Biol. 26(3):362-370(2002).

Other Notes	Small volumes of anti-SPG16 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SPG16 purchase	MBS6350506 is an antibody targeting SPG16. Also known as SPG16, ID (SPAG16, PF20, Sperm-associated antigen 16 protein, Pf20 protein homolog) (MaxLight 750). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SPG16. It may not necessarily be applicable to this product.

NCBI GI #	70909324
NCBI GeneID	79582
NCBI Accession #	NP_078808.3
UniProt Primary Accession #	Q8N0X2
UniProt Secondary Accession #	Q498B7; Q658W1; Q68DB3; Q6I9Z6; Q8N9C7; Q9H601
UniProt Related Accession #	Q8N0X2
GenBank Nucleotide #	NM_024532.4
NCBI Official Full Name	sperm-associated antigen 16 protein isoform 1
NCBI Official Synonym Full Names	sperm associated antigen 16
NCBI Official Symbol	SPAG16
NCBI Official Synonym Symbols	PF20; WDR29
UniProt Protein Name	Sperm-associated antigen 16 protein
UniProt Synonym Protein Names	Pf20 protein homolog
UniProt Gene Name	SPAG16
UniProt Synonym Gene Names	PF20
UniProt Entry Name	SPG16_HUMAN
NCBI Protein Information	sperm-associated antigen 16 protein
NCBI Summary for SPG16	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]
UniProt Comments for SPG16	SPAG16: 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. 5 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 2q34 Cellular Component: axoneme; cytoskeleton; nucleus Molecular Function: protein kinase binding Biological Process: axoneme biogenesis; cilium biogenesis; microtubule sliding; sperm axoneme assembly
Research Articles on SPG16	**1.** SPAG16 is a novel autoantibody target in a subgroup of MS patients and in combination with other diagnostic criteria, elevated levels of anti-SPAG16 Abs could be used as a biomarker for diagnosis.

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