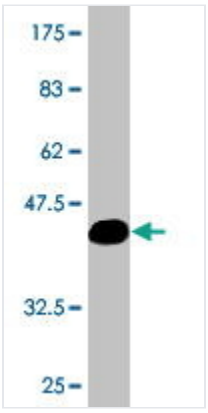
SPA17 Antibody – Mouse Monoclonal

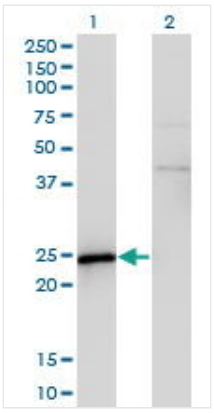
PRODUCT OVERVIEW

Product Name	SPA17, Monoclonal Antibody
Full Product Name	SPA17 (Sperm Autoantigenic Protein 17, Sperm Protein 17, SP17, Sp17-1, Sperm Surface Protein Sp17, Cancer/testis Antigen 22, CT22) (AP)
Product Gene Name	anti-SPA17 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3B6
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human SPA17.
Preparation and Storage	Store product at 4 degree C. 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. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	19.8 kDa (174aa) confirmed by MALDI-TOF (Molecular size on SDS-PAGE will appear higher)
OMIM	608621
3D Structure	ModBase 3D Structure for Q15506
Immunogen	Partial recombinant protein corresponding to aa51-149 from human SPA17 with GST tag (NP_059121). MW of the GST tag alone is 26kD.
Immunogen Sequence	EKTNFDPAEWGSKVEDRFYNNHAFEEQEPPEKSDPKQEESQISGKEEETSVTILDSSEEDKEKEEVAAVKIQAAFRGHIAREEAKKMKTNSLQNEEKEE
Conjugate	AP
Product Categories/Family for anti-SPA17 antibody	Antibodies; Spermatogenesis; Testis Proteins
Applications Tested/Suitable for anti-SPA17 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-SPA17 antibody	WB: Transfected 293T cells and recombinant protein Applications are based on unconjugated antibody.
Related Product Information for anti-SPA17 antibody	MBS6133941 is an antibody targeting SPA17. Also known as SPA17 (Sperm Autoantigenic Protein 17, Sperm Protein 17, SP17, Sp17-1, Sperm Surface Protein Sp17, Cancer/testis Antigen 22, CT22) (AP). Reactive in Human. Host: Mouse.

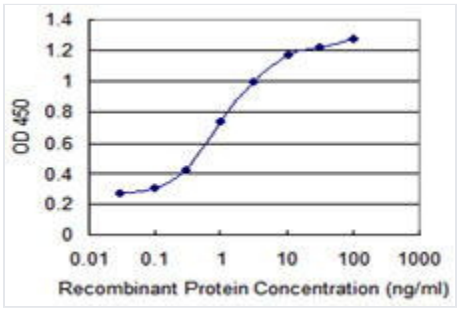
Other Notes	Small volumes of anti-SPA17 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-SPA17 antibody
Western Blot detection against Immunogen (37kD) MBS6001117.



Western Blot (WB) of anti-SPA17 antibody
Western Blot analysis of SPA17 using MBS6001117 expression in transfected 293T cell line byMBS6001117. Lane 1: SPA17 transfected lysate (17.4kD). Lane 2: Non-transfected lysate.



Testing Data of anti-SPA17 antibody
Detection limit for recombinant GST tagged SPA17 is 0.03ng/ml as a capture antibody MBS6001117.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SPA17. It may not necessarily be applicable to this product.

NCBI GI #	8394343
NCBI GeneID	53340
NCBI Accession #	NP_059121
UniProt Primary Accession #	Q15506
UniProt Secondary Accession #	Q9BXF7; B2R4F2
UniProt Related Accession #	Q15506
GenBank Nucleotide #	NM_017425
NCBI Official Full Name	sperm surface protein Sp17
NCBI Official Synonym Full Names	sperm autoantigenic protein 17
NCBI Official Symbol	SPA17
NCBI Official Synonym Symbols	CT22; SP17; SP17-1
UniProt Protein Name	Sperm surface protein Sp17
UniProt Synonym Protein Names	Cancer/testis antigen 22; CT22; Sp17-1; Sperm autoantigenic protein 17

Protein Family	Sperm surface protein
UniProt Gene Name	SPA17
UniProt Synonym Gene Names	SP17; CT22
UniProt Entry Name	SP17_HUMAN
NCBI Protein Information	sperm surface protein Sp17
NCBI Summary for SPA17	This gene encodes a protein present at the cell surface. The N-terminus has sequence similarity to human cAMP-dependent protein kinase A (PKA) type II alpha regulatory subunit (RIIa) while the C-terminus has an IQ calmodulin-binding motif. The central portion of the protein has carbohydrate binding motifs and likely functions in cell-cell adhesion. The protein was initially characterized by its involvement in the binding of sperm to the zona pellucida of the oocyte. Recent studies indicate that it is also involved in additional cell-cell adhesion functions such as immune cell migration and metastasis. A retrotransposed pseudogene is present on chromosome 10q22.[provided by RefSeq, Jan 2009]
UniProt Comments for SPA17	SPA17: Sperm surface zona pellucida binding protein. Helps to bind spermatozoa to the zona pellucida with high affinity. Might function in binding zona pellucida and carbohydrates. Protein type: Cancer Testis Antigen (CTA) Chromosomal Location of Human Ortholog: 11q24.2 Cellular Component: membrane; cytoplasm Molecular Function: calmodulin binding Biological Process: binding of sperm to zona pellucida; single fertilization; spermatogenesis
Research Articles on SPA17	**1.** Sp17 and ASP cancer/testis antigens were found in ciliated cells of four ciliated hepatic foregut cysts (CHFCs). Further characterization of Sp17 and ASP in patients with CHFCs may provide significant clues for understanding the molecular mechanisms underlying their predisposition to develop squamous cell carcinomas.
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