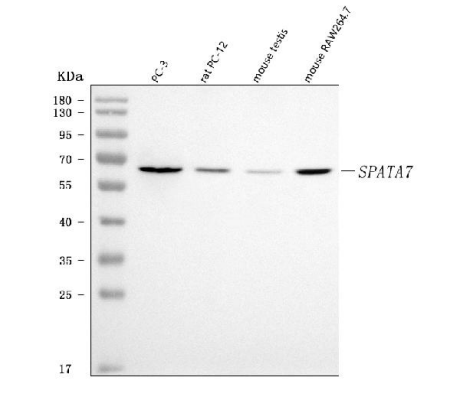
SPATA7 Antibody – Rabbit Polyclonal

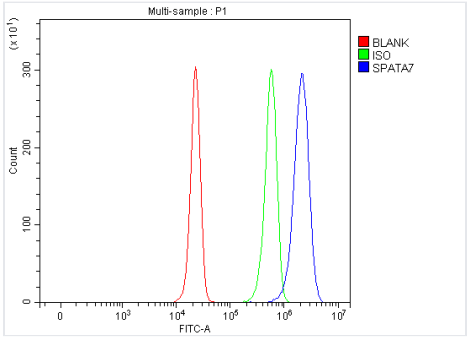
PRODUCT OVERVIEW

Product Name	SPATA7, Polyclonal Antibody
Full Product Name	Anti-SPATA7 Antibody Picoband
Product Gene Name	anti-SPATA7 antibody
Product Synonym Names	SET domain bifurcated histone lysine methyltransferase 2; Histone-lysine N-methyltransferase SETDB2; Chronic lymphocytic leukemia deletion region gene 8 protein; Lysine N-methyltransferase 1F; SET domain bifurcated 2; SETDB2; C13orf4; CLLD8; KMT1F
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	HighlyExpressed in reproductive organs, such as testis, ovary and prostate.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	67,719 Da
OMIM	609868
3D Structure	ModBase 3D Structure for Q9P0W8
Immunogen	E coli-derived human SPATA7 recombinant protein (Position: R5-V599).
Subcellular Localization	Nucleus. Chromosome.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Histone methyltransferase involved in left-right axis specification in early development and mitosis. Specifically trimethylates 'Lys-9' of histone H3 (H3K9me3). H3K9me3 is a specific tag for epigenetic transcriptional repression that recruits HP1 (CBX1, CBX3 and/or CBX5) proteins to methylated histones. Contributes to H3K9me3 in both the interspersed repetitive elements and centromere-associated repeats. Plays a role in chromosome condensation and segregation during mitosis.
Product Categories/Family for anti-SPATA7 antibody	Primary Antibodies; Immune System Diseases; Immunology; Protein Trafficking; Signal Transduction; Signaling Pathway
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-SPATA7 antibody	Western Blot (WB), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-SPATA7 antibody	WB: 0.25-0.5ug/ml, Human, Mouse, Rat FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml

Related Product Information for anti-SPATA7 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product References and Citations for anti-SPATA7 antibody	1. Avila-Fernandez, A., Corton, M., Lopez-Molina, M. I., Martin-Garrido, E., Cantalapiedra, D., Fernandez-Sanchez, R., Blanco-Kelly, F., Riveiro-Alvarez, R., Tatu, S. D., Trujillo-Tiebas, M. J., Garcia-Sandoval, B., Ayuso, C., Cremers, F. P. M. Late onset retinitis pigmentosa. Ophthalmology 118: 2523-2524, 2011. 2. Eblimit, A., Agrawal, S. A., Thomas, K., Anastassov, I. A., Abulikemu, T., Moayedi, Y., Mardon, G., Chen, R. Conditional loss of Spata7 in photoreceptors causes progressive retinal degeneration in mice. Exp. Eye Res. 166: 120-130, 2018. Note: Erratum: Exp Eye Res. 171: 119, 2018. 3. Eblimit, A., Nguyen, T.-M. T., Chen, Y., Esteve-Rudd, J., Zhong, H., Letteboer, S., Van Reeuwijk, J., Simons, D. L., Ding, Q., Wu, K. M., Li, Y., Van Beersum, S., and 10 others. Spata7 is a retinal ciliopathy gene critical for correct RPGRIP1 localization and protein trafficking in the retina. Hum. Molec. Genet. 24: 1584-601, 2015.
Other Notes	Small volumes of anti-SPATA7 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 SPATA7 purchase	MBS1758911 is an antibody targeting SPATA7. Also known as Anti-SPATA7 Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-SPATA7 antibody
Figure 1. Western blot analysis of SPATA7 using anti-SPATA7 antibody (MBS1758911).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human PC-3 whole cell lysates,Lane 2: rat PC-12 whole cell lysates,Lane 3: mouse testis tissue lysates,Lane 4: mouse RAW264.7 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SPATA7 antigen affinity purified polyclonal antibody (#MBS1758911) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for SPATA7 at approximately 68 kDa. The expected band size for SPATA7 is at 68 kDa.



Flow Cytometry (FC/FACS) of anti-SPATA7 antibody
Figure 2. Flow Cytometry analysis of HepG2 cells using anti-SPATA7 antibody (MBS1758911).Overlay histogram showing HepG2 cells stained with MBS1758911 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SPATA7 Antibody (MBS1758911, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SPATA7. It may not necessarily be applicable to this product.

NCBI GI #	94536850
NCBI GeneID	55812
NCBI Accession #	NP_001035518.1
UniProt Primary Accession #	Q9P0W8
UniProt Secondary Accession #	Q5BKY5; Q8WX30; Q96HF3; Q9H0X0; Q9P0W7
UniProt Related Accession #	Q9P0W8

GenBank Nucleotide #	NM_001040428.3
NCBI Official Full Name	spermatogenesis-associated protein 7 isoform 2
NCBI Official Synonym Full Names	spermatogenesis associated 7
NCBI Official Symbol	SPATA7
NCBI Official Synonym Symbols	HSD3; LCA3; HSD-3.1; HEL-S-296
UniProt Protein Name	Spermatogenesis-associated protein 7
UniProt Synonym Protein Names	HSD-3.1; Spermatogenesis-associated protein HSD3
Protein Family	Spermatogenesis-associated protein
UniProt Gene Name	SPATA7
UniProt Synonym Gene Names	HSD3
UniProt Entry Name	SPAT7_HUMAN
NCBI Protein Information	spermatogenesis-associated protein 7; epididymis secretory protein Li 296; spermatogenesis-associated protein HSD3
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