

Rabbit SPACA3 Polyclonal Antibody | anti-SPACA3 antibody

Anti-SPACA3 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127643	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

SPACA3; Polyclonal Antibody; Anti-SPACA3 Antibody Picoband; Protein NDRG3; pre T cell antigen receptor alpha; Pre T-cell antigen receptor alpha; pT-alpha; pTa; pT-alpha-TCR; PTCRA; anti-SPACA3 antibody

PRODUCT SPECIFICATIONS

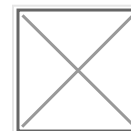
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in immature but not mature T-cells. Also found in CD34+ cells from peripheral blood, CD34+ precursors from umbilical cord blood and adult bone marrow.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-SPACA3 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human SPACA3 recombinant protein (Position: E86-F215).
Subcellular Localization	Membrane, Single-pass type I membrane protein
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	The pre-T-cell receptor complex (composed of PTCRA, TCRB and the CD3 complex) regulates early T-cell development.
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of Daudi cells using anti-SPACA3 antibody (AAA127643). Overlay histogram showing Daudi cells stained with AAA127643 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-SPACA3 Antibody (AAA127643, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG 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.



IF (Immunofluorescence)

Figure 2. IF analysis of SPACA3 using anti-SPACA3 antibody (AAA127643). SPACA3 was detected in an immunocytochemical section of CACO2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-SPACA3 Antibody (AAA127643) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of SPACA3 using anti-SPACA3 antibody (AAA127643). 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 293T whole cell lysates, Lane 2: human Daudi whole cell lysates, Lane 3: rat C6 whole cell lysates, Lane 4: mouse NIH/3T3 whole cell lysates, Lane 5: 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-SPACA3 antigen affinity purified polyclonal antibody (#AAA127643) 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 with Tanon 5200 system. A specific band was detected for SPACA3 at approximately 40 kDa. The expected band size for SPACA3 is at 23 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SPACA3 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 Categories/Family for anti-SPACA3 antibody	Primary Antibodies; Hematopoietic Progenitors; Lymphoid; Stem Cells; T Lymphocytic Lineage
References	1. Mandal, A., Klotz, K. L., Shetty, J., Jayes, F. L., Wolkowicz, M. J., Bolling, L. C., Coonrod, S. A., Black, M. B., Diekman, A. B., Haystead, T. A. J., Flickinger, C. J., Herr, J. C. SLLP1, a unique, intra-acrosomal, non-bacteriolytic, c lysozyme-like protein of human spermatozoa. Biol. Reprod. 68: 1525-1537, 2003. 2. Zhang, K., Gao, R., Zhang, H., Cai, X., Shen, C., Wu, C., Zhao, S., Yu, L. Molecular cloning and characterization of three novel lysozyme-like genes, predominantly expressed in the male reproductive system of humans, belonging to the C-type lysozyme/alpha-lactalbumin family. Biol. Reprod. 73: 1064-1071, 2005.

NCBI AND UNIPROT INFORMATION

NCBI GI #	27777653
NCBI GeneID	124912
NCBI Accession #	NP_776246.1
NCBI GenBank Nucleotide #	NM_173847.3
UniProt Accession #	Q8IXA5; Q7Z4Y5
Molecular Weight	23,431 Da
NCBI Official Full Name	sperm acrosome membrane-associated protein 3
NCBI Official Synonym Full Names	sperm acrosome associated 3
NCBI Official Symbol	SPACA3
NCBI Official Synonym Symbols	CT54; LYC3; LYZL3; SLLP1; ALLP17; 1700025M08Rik
NCBI Protein Information	sperm acrosome membrane-associated protein 3; lysozyme-like protein 3; cancer/testis antigen 54; sperm lysozyme like protein 1; sperm lysozyme-like protein 1; sperm protein reactive with ASA; sperm lysozyme-like acrosomal protein 1; sperm protein reactive
UniProt Protein Name	Sperm acrosome membrane-associated protein 3
UniProt Gene Name	SPACA3
UniProt Synonym Gene Names	LYC3; LYZL3; SLLP1; SPRASA; CT54

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/spaca3-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127643>