

Rabbit Spindly/SPDL1 Polyclonal Antibody | anti-Spindly/SPDL1 antibody

Anti-Spindly/SPDL1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127768	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

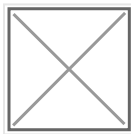
Spindly/SPDL1; Polyclonal Antibody; Anti-Spindly/SPDL1 Antibody Picoband; histone cluster 1 H3 family member *a/b/c/d/e/f/g/h/i/j*; Histone H3/a; Histone H3/b; Histone H3/c; Histone H3/d; Histone H3/f; Histone H3/h; Histone H3/i; Histone H3/j; Histone H3/k; Histone H3/l; HIST1H3A; HIST1H3B; HIST1H3C; HIST1H3D; HIST1H3E; HIST1H3F; HIST1H3G; HIST1H3H; HIST1H3I; HIST1H3J; H3FJ; anti-Spindly/SPDL1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in fetal brain, fetal lung, fetal liver, heart, brain, placenta, lung, liver, muscle, kidney and pancreas.
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-Spindly/SPDL1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human Spindly/SPDL1 recombinant protein (Position: Q40-Q605).
Subcellular Localization	Cytoplasm
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	Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.
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.



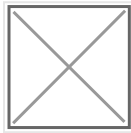
FCM/FACS (Flow Cytometry)
Figure 4. Flow Cytometry analysis of PC-3 cells using anti-Spindly/SPDL1 antibody (AAA127768).Overlay histogram showing PC-3 cells stained with AAA127768 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Spindly/SPDL1 Antibody (AAA127768, 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.



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of HCT116 cells using anti-Spindly/SPDL1 antibody (AAA127768).Overlay histogram showing HCT116 cells stained with AAA127768 (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-Spindly/SPDL1 Antibody (AAA127768, 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 Spindly/SPDL1 using anti-Spindly/SPDL1 antibody (AAA127768).Spindly/SPDL1 was detected in an immunocytochemical section of SiHa 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-Spindly/SPDL1 Antibody (AAA127768) 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 Spindly/SPDL1 using anti-Spindly/SPDL1 antibody (AAA127768).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 U251 whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: human Caco-2 whole cell lysates,Lane 4: rat liver tissue lysates,Lane 5: rat RH35 whole cell lysates,Lane 6: mouse liver tissue lysates,Lane 7: mouse NIH/3T3 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-Spindly/SPDL1 antigen affinity purified polyclonal antibody (#AAA127768) 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 Spindly/SPDL1 at approximately 70 kDa. The expected band size for Spindly/SPDL1 is at 70 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-Spindly/SPDL1 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-Spindly/SPDL1 antibody	Primary Antibodies; DNA/RNA; DNA Synthesis; Epigenetics and Nuclear Signaling; RNA Processing
References	1. Barisic, M., Sohm, B., Mikolcevic, P., Wandke, C., Rauch, V., Ringer, T., Hess, M., Bonn, G., Geley, S. Spindly/CCDC99 is required for efficient chromosome congression and mitotic checkpoint regulation. Molec. Biol. Cell 21: 1968-1981, 2010. 2. Chan, Y. W., Fava, L. L., Uldschmid, A., Schmitz, M. H. A., Gerlich, D. W., Nigg, E. A., Santamaria, A. Mitotic control of kinetochore-associated dynein and spindle orientation by human Spindly. J. Cell. Biol. 185: 859-874, 2009.3. Griffis, E. R., Stuurman, N., Vale, R. D. Spindly, a novel protein essential for silencing the spindle assembly checkpoint, recruits dynein to the kinetochore. J. Cell. Biol. 177: 1005-1015, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	157388975
NCBI GeneID	54908
NCBI Accession #	NP_060255.3
NCBI GenBank Nucleotide #	NM_017785.4
UniProt Accession #	Q96EA4; Q8TEC8; Q9HD44; Q9NX97; C9JS47

Molecular Weight	70,172 Da
NCBI Official Full Name	protein Spindly
NCBI Official Synonym Full Names	spindle apparatus coiled-coil protein 1
NCBI Official Symbol	SPDL1
NCBI Official Synonym Symbols	CCDC99
NCBI Protein Information	protein Spindly; hSpindly; spindly homolog; arsenite-related gene 1 protein; coiled-coil domain containing 99; rhabdomyosarcoma antigen MU-RMS-40.4A; coiled-coil domain-containing protein 99; rrhabdomyosarcoma antigen protein MU-RMS-40.4A; spindle apparat
UniProt Protein Name	Protein Spindly
UniProt Gene Name	SPDL1
UniProt Synonym Gene Names	CCDC99; hSpindly
UniProt Entry Name	SPDLY_HUMAN

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/spindly-spdl1-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127768>