

Rabbit SPIDR Polyclonal Antibody | anti-SPIDR antibody

Anti-SPIDR Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127223	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Western Blot, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

SPIDR; Polyclonal Antibody; Anti-SPIDR Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-SPIDR antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
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-SPIDR antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Immunogen	E coli-derived human SPIDR recombinant protein (Position: E273-E904). Human SPIDR shares 66.7% amino acid (aa) sequence identity with mouse SPIDR.
Subcellular Localization	Cytoplasm, Nucleus
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	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
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 3. Flow Cytometry analysis of SiHa cells using anti-SPIDR antibody (AAA127223). Overlay histogram showing SiHa cells stained with AAA127223 (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-SPIDR Antibody (AAA127223, 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 (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of SPIDR using anti-SPIDR antibody (AAA127223). 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 RT4 whole cell lysates, Lane 2: human MCF-7 whole cell lysates, Lane 3: human SIHA whole cell lysates, Lane 4: rat brain tissue lysates, Lane 5: mouse brain tissue 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-SPIDR antigen affinity purified polyclonal antibody (#AAA127223) 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 SPIDR at approximately 95 kDa. The expected band size for SPIDR is at 100 kDa.



IF (Immunofluorescence)
Figure 2. IF analysis of SPIDR using anti-SPIDR antibody (AAA127223) and anti-Beta Tubulin antibody (M01857-3). SPIDR was detected in immunocytochemical section of U2OS cell. 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-SPIDR Antibody (AAA127223) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and FITC Conjugated Goat Anti-Mouse IgG (BA1101) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-SPIDR 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-SPIDR antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Hartz, P. A. Personal Communication. Baltimore, Md. 8/27/2013. 2. Heddar, A., Guichoux, N., Auger, N., Misrahi, M. A SPIDR homozygous nonsense pathogenic variant in isolated primary ovarian insufficiency with chromosomal instability. Clin. Genet. 101: 242-246, 2022. 3. Nagase, T., Seki, N., Tanaka, A., Ishikawa, K., Nomura, N. Prediction of the coding sequences of unidentified human genes. IV. The coding sequences of 40 new genes (KIAA0121-KIAA0160) deduced by analysis of cDNA clones from human cell line KG-1. DNA Res. 2: 167-174, 1995.

NCBI AND UNIPROT INFORMATION

NCBI GI #	145301598
NCBI GeneID	23514
NCBI Accession #	NP_001073863.1
NCBI GenBank Nucleotide #	NM_001080394.3
UniProt Accession #	Q14159; Q96BI5
Molecular Weight	100,316 Da

NCBI Official Full Name	DNA repair-scaffolding protein isoform 1
NCBI Official Synonym Full Names	scaffolding protein involved in DNA repair
NCBI Official Symbol	SPIDR
NCBI Official Synonym Symbols	KIAA0146
NCBI Protein Information	DNA repair-scaffolding protein
UniProt Protein Name	DNA repair-scaffolding protein
UniProt Gene Name	SPIDR
UniProt Synonym Gene Names	KIAA0146
UniProt Entry Name	SPIDR_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/spidr-antibody-flow-cytometry-western-blot-immunofluorescence-immunocytochemistry-elisa/127223>