

Rabbit PSMC1 Polyclonal Antibody | anti-PSMC1 antibody

Anti-PSMC1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127306	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

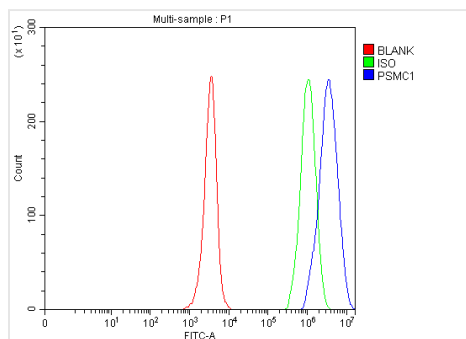
PRODUCT SYNONYMS

PSMC1; Polyclonal Antibody; Anti-PSMC1 Antibody Picoband; anti-PSMC1 antibody

PRODUCT SPECIFICATIONS

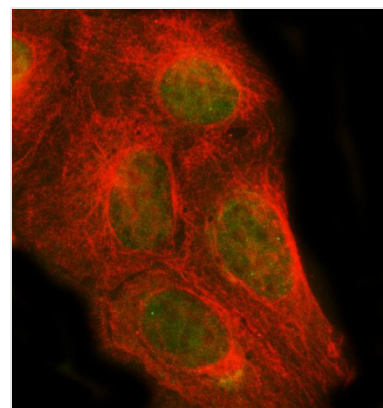
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PSMC1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human PSMC1 recombinant protein (Position: K21-L440). Human PSMC1 shares 100% amino acid (aa) sequence identity with both mouse and rat PSMC1.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
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



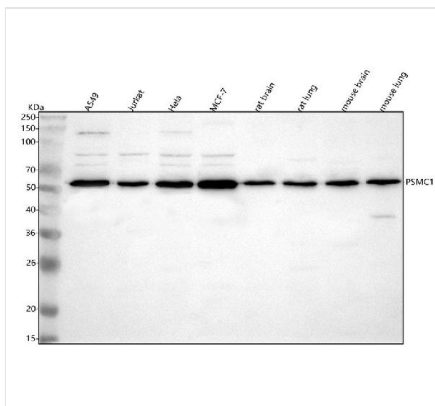
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of JK cells using anti-PSMC1 antibody (AAA127306). Overlay histogram showing JK cells stained with AAA127306 (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-PSMC1 Antibody (AAA127306, 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.



IF (Immunofluorescence)

Figure 2. IF analysis of PSMC1 using anti-PSMC1 antibody (AAA127306) and anti-Beta Tubulin antibody (M01857-3). PSMC1 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-PSMC1 Antibody (AAA127306) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG and DyLight550 Conjugated Goat Anti-Mouse IgG (BA1133) 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.



WB (Western Blot)

Figure 1. Western blot analysis of PSMC1 using anti-PSMC1 antibody (AAA127306). 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 A549 whole cell lysates, Lane 2: human Jurkat whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: human MCF-7 whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat lung tissue lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse lung 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-PSMC1 antigen affinity purified polyclonal antibody (#AAA127306) 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 PSMC1 at approximately 57 kDa. The expected band size for PSMC1 is at 49 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PSMC1 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-PSMC1 antibody	Primary Antibodies
References	1. Aharoni, S., Proskorovski-Ohayon, R., Krishnan, R. K., Yogev, Y., Wormser, O., Hadar, N., Bakhrat, A., Alshafee, I., Gombosh, M., Agam, N., Gradstein, L., Shorer, Z., Zarivach, R., Eskin-Schwartz, M., Abdu, U., Birk, O. S. PSMC1 variant causes a novel neurological syndrome. Clin. Genet. 102: 324-332, 2022. 2. Dubiel, W., Ferrell, K., Pratt, G., Rechsteiner, M. Subunit 4 of the 26 S protease is a member of a novel eukaryotic ATPase family. J. Biol. Chem. 267: 22699-22702, 1992.3. Gross, M. B. Personal Communication. Baltimore, Md. 2/17/2011.

NCBI AND UNIPROT INFORMATION

NCBI GI #	49065817
NCBI GeneID	5700
UniProt Accession #	P62191 ; P49014 ; Q03527 ; Q6IAW0 ; Q6NW36 ; Q96AZ3 ; B4DR63
Molecular Weight	41,167 Da
NCBI Official Full Name	26S protease regulatory subunit 4
NCBI Official Synonym Full Names	proteasome 26S subunit, ATPase 1
NCBI Official Symbol	PSMC1
NCBI Official Synonym Symbols	S4; p56; P26S4
NCBI Protein Information	26S protease regulatory subunit 4
UniProt Protein Name	26S protease regulatory subunit 4

UniProt Gene Name	PSMC1
UniProt Synonym Gene Names	P26s4
UniProt Entry Name	PRS4_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/psmc1-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127306>