

Rabbit anti-Human PRPF19 Polyclonal Antibody | anti-PRPF19 antibody

Anti-PRPF19 Antibody Picoband

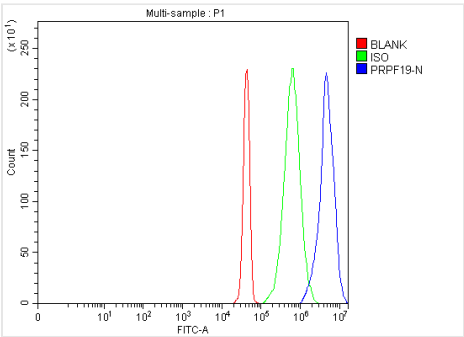
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127117	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

PRPF19; Polyclonal Antibody; Anti-PRPF19 Antibody Picoband; BAG family molecular chaperone regulator 1; PH domain and leucine rich repeat protein phosphatase 1; PH domain leucine-rich repeat-containing protein phosphatase 1; Pleckstrin homology domain-containing family E member 1; PH domain-containing family E member 1; Suprachiasmatic nucleus circadian oscillatory protein; hSCOP; PHLPP1; KIAA0606; PHLPP; PLEKHE1; SCOP; anti-PRPF19 antibody

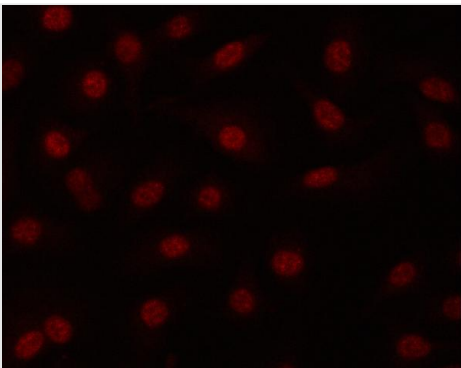
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Monocyte/macrophage specific.
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-PRPF19 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human PRPF19 recombinant protein (Position: Q51-H359).
Subcellular Localization	Nucleus, Cytoplasm, Membrane, Peripheral membrane protein, Cell membrane
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	Protein phosphatase involved in regulation of Akt and PKC signaling. Mediates dephosphorylation in the C-terminal domain hydrophobic motif of members of the AGC Ser/Thr protein kinase family; specifically acts on 'Ser-473' of AKT2 and AKT3, 'Ser-660' of PRKCB and 'Ser-657' of PRKCA. Isoform 2 seems to have a major role in regulating Akt signaling in hippocampal neurons. Akt regulates the balance between cell survival and apoptosis through a cascade that primarily alters the function of transcription factors that regulate pro- and antiapoptotic genes. Dephosphorylation of 'Ser-473' of Akt triggers apoptosis and suppression of tumor growth. Dephosphorylation of PRKCA and PRKCB leads to their destabilization and degradation. Dephosphorylates STK4 on 'Thr-387' leading to STK4 activation and apoptosis. Dephosphorylates RPS6KB1 and is involved in regulation of cap-dependent translation. Inhibits cancer cell proliferation and may act as a tumor suppressor. Dephosphorylates RAF1 inhibiting its kinase activity. May act as a negative regulator of K-Ras signaling in membrane rafts. Involved in the hippocampus-dependent long-term memory formation. Involved in circadian control by regulating the consolidation of circadian periodicity after resetting. Involved in development and function of regulatory T-cells.
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.



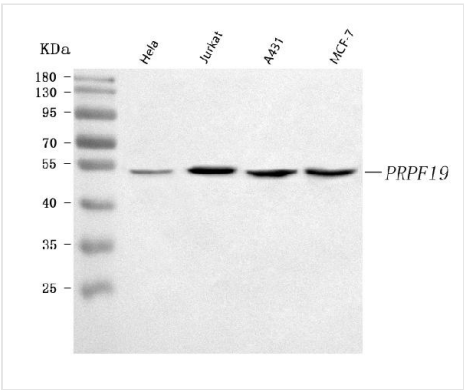
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of JK cells using anti-PRPF19 antibody (AAA127117).Overlay histogram showing JK cells stained with AAA127117 (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-PRPF19 Antibody (AAA127117, 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 PRPF19 using anti-PRPF19 antibody (AAA127117).PRPF19 was detected in an immunocytochemical section of A549 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-PRPF19 Antibody (AAA127117) 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. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of PRPF19 using anti-PRPF19 antibody (AAA127117).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 Hela whole cell lysates,Lane 2: human Jurkat whole cell lysates,Lane 3: human A431 whole cell lysates,Lane 4: human MCF-7whole 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-PRPF19 antigen affinity purified polyclonal antibody (#AAA127117) 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 PRPF19 at approximately 54 kDa. The expected band size for PRPF19 is at 55 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PRPF19 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-PRPF19 antibody	Primary Antibodies; Immunoglobulins; Immunology; Innate Immunity
References	1. Beck, B. D., Park, S.-J., Lee, Y.-J., Roman, Y., Hromas, R. A., Lee, S.-H. Human Pso4 is a Metnase (SETMAR)-binding partner that regulates Metnase function in DNA repair. J. Biol. Chem. 283: 9023-9030, 2008.2. Gross, M. B. Personal Communication. Baltimore, Md. 9/6/2016.3. Mahajan, K. N., Mitchell, B. S. Role of human Pso4 in mammalian DNA repair and association with terminal deoxynucleotidyl transferase. Proc. Nat. Acad. Sci. 100: 10746-10751, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7657381
NCBI GeneID	27339
NCBI Accession #	NP_055317.1
NCBI GenBank Nucleotide #	NM_014502.4
UniProt Accession #	Q9UMS4
Molecular Weight	55,181 Da
NCBI Official Full Name	pre-mRNA-processing factor 19
NCBI Official Synonym Full Names	pre-mRNA processing factor 19
NCBI Official Symbol	PRPF19
NCBI Official Synonym Symbols	PSO4; SNEV; PRP19; UBOX4; hPSO4; NMP200
NCBI Protein Information	pre-mRNA-processing factor 19; PRP19/PSO4 homolog; senescence evasion factor; nuclear matrix protein 200; PRP19/PSO4 pre-mRNA processing factor 19 homolog; nuclear matrix protein NMP200 related to splicing factor PRP19
UniProt Protein Name	Pre-mRNA-processing factor 19
UniProt Gene Name	PRPF19
UniProt Synonym Gene Names	NMP200; PRP19; SNEV; hPso4
UniProt Entry Name	PRP19_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/prpf19-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127117>