Rabbit RPS21 Polyclonal Antibody | anti-RPS21 antibody

Anti-RPS21 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127627	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot**

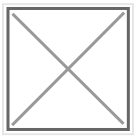
PRODUCT SYNONYMS

RPS21; Polyclonal Antibody; Anti-RPS21 Antibody Picoband; anti-RPS21 antibody

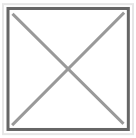
PRODUCT SPECIFICATIONS

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 Na2HPO4.
Applicable Applications for anti-RPS21 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human RPS21 recombinant protein (Position: M1-F83). Human RPS21 shares 85.2% amino acid (aa) sequence identity with both mouse and rat RPS21.
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 HepG2 cells using anti-RPS21 antibody (AAA127627).Overlay histogram showing HepG2 cells stained with AAA127627 (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-RPS21 Antibody (AAA127627, 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 RPS21 using anti-RPS21 antibody (AAA127627).RPS21 was detected in an immunocytochemical section of HELA 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-RPS21 Antibody (AAA127627) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG 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 RPS21 using anti-RPS21 antibody (AAA127627).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 Caco-2 whole cell lysates,Lane 2: human HEL whole cell lysates,Lane 3: human HepG2 whole cell lysates,Lane 4: human MCF-7 whole cell lysates,Lane 5: rat stomach tissue lysates,Lane 6: mouse stomach 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-RPS21 antigen affinity purified polyclonal antibody (#AAA127627) at 0.25ug/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 RPS21 at approximately 13 kDa. The expected band size for RPS21 is at 9 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RPS21 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-RPS21 antibody	Primary Antibodies
References	1. Bhat, K. S., Morrison, S. G. Primary structure of human ribosomal protein S21. Nucleic Acids Res. 21: 2939 only, 1993. 2. Kenmochi, N., Kawaguchi, T., Rozen, S., Davis, E., Goodman, N., Hudson, T. J., Tanaka, T., Page, D. C. A map of 75 human ribosomal protein genes. Genome Res. 8: 509-523, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506699
NCBI GeneID	6227
NCBI Accession #	NP_001015.1
NCBI GenBank Nucleotide #	NM_001024.3
UniProt Accession #	P63220; P35265
Molecular Weight	83
NCBI Official Full Name	40S ribosomal protein S21
NCBI Official Synonym Full Names	ribosomal protein S21
NCBI Official Symbol	RPS21
NCBI Official Synonym Symbols	S21
NCBI Protein Information	40S ribosomal protein S21; 8.2 kDa differentiation factor
UniProt Protein Name	40S ribosomal protein S21
UniProt Gene Name	**RPS21**
UniProt Entry Name	RS21_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.