

Rabbit anti-Human RPS2 Polyclonal Antibody | anti-RPS2 antibody

Anti-RPS2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126317	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

RPS2; Polyclonal Antibody; Anti-RPS2 Antibody Picoband; anti-RPS2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
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 .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-RPS2 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human RPS2 recombinant protein (Position: K54-T293).
Preparation and Storage	Store 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 U937 cells using anti-RPS2 antibody (AAA126317). Overlay histogram showing U937 cells stained with AAA126317 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RPS2 Antibody (AAA126317, 1 ug/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 (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of RPS2 using anti-RPS2 antibody (AAA126317). RPS2 was detected in an immunocytochemical section of HeLa cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-RPS2 Antibody (AAA126317) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 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 RPS2 using anti-RPS2 antibody (AAA126317). 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. 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-RPS2 antigen affinity purified polyclonal antibody (#AAA126317) at 0.5 ug/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 RPS2 at approximately 31 kDa. The expected band size for RPS2 is at 31 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RPS2 antibody	The RPS2 gene is the gene which, in humans, encodes the 40S ribosomal protein S2. Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 40S subunit. The protein belongs to the S5P family of ribosomal proteins. It is located in the cytoplasm. This gene shares sequence similarity with mouse LLRep3. It is co-transcribed with the small nucleolar RNA gene U64, which is located in its third intron. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.
Product Categories/Family for anti-RPS2 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	15055539
NCBI GeneID	6187
NCBI Accession #	NP_002943
NCBI GenBank Nucleotide #	NM_002952.3
UniProt Accession #	P15880; Q3MIB1; B2R5G0; D3DU82
Molecular Weight	33.7 kDa (316aa)
NCBI Official Full Name	40S ribosomal protein S2
NCBI Official Synonym Full Names	ribosomal protein S2
NCBI Official Symbol	RPS2
NCBI Official Synonym Symbols	S2; LLREP3
NCBI Protein Information	40S ribosomal protein S2
UniProt Protein Name	40S ribosomal protein S2
UniProt Gene Name	RPS2
UniProt Synonym Gene Names	RPS4

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.