Rabbit RPS14 Polyclonal Antibody | anti-RPS14 antibody

Anti-RPS14 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127195	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot**

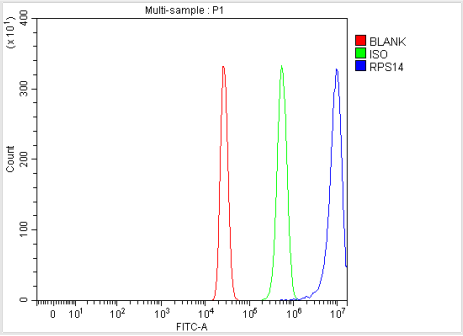
PRODUCT SYNONYMS

RPS14; Polyclonal Antibody; Anti-RPS14 Antibody Picoband; Breast cancer metastasis-suppressor 1; selectin P ligand; p-selectin glycoprotein ligand; Selplg; Psgl1; anti-RPS14 antibody

PRODUCT SPECIFICATIONS

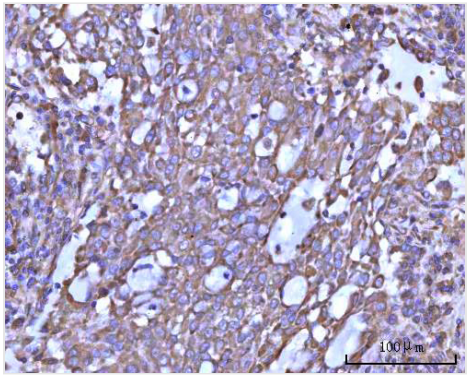
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	HighlyExpressed in blood, bone marrow, brain, adipose tissue, spleen, and thymus. AlsoExpressed in heart, kidney, liver, muscle, ovary, and stomach.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-RPS14 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human RPS14 recombinant protein (Position: M1-L151).
Subcellular Localization	Integral component of 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	A SLe (x)-type proteoglycan, which through high affinity, calcium-dependent interactions with E- and P-selectins, mediates rapid rolling of leukocytes over vascular surfaces during the initial steps in inflammation. Critical for the initial leukocyte capture.
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



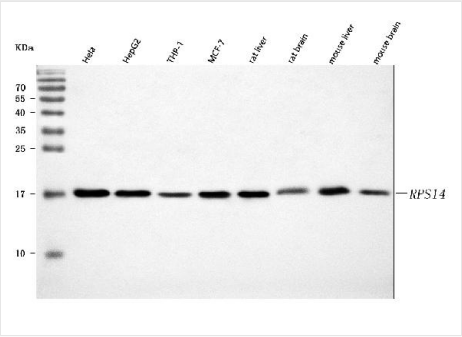
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HepG2 cells using anti-RPS14 antibody (AAA127195).Overlay histogram showing HepG2 cells stained with AAA127195 (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-RPS14 Antibody (AAA127195, 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.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of RPS14 using anti-RPS14 antibody (AAA127195).RPS14 was detected in a paraffin-embedded section of human lung adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-RPS14 Antibody (AAA127195) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of RPS14 using anti-RPS14 antibody (AAA127195).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 HepG2 whole cell lysates,Lane 3: human THP-1 whole cell lysates,Lane 4: human MCF-7 whole cell lysates,Lane 5: rat liver tissue lysates,Lane 6: rat brain tissue lysates,Lane 7: mouse liver tissue lysates,Lane 8: 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-RPS14 antigen affinity purified polyclonal antibody (#AAA127195) 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 RPS14 at approximately 16 kDa. The expected band size for RPS14 is at 16 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RPS14 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-RPS14 antibody	Primary Antibodies; Cardiovascular; Cell Biology; Platelets; Protease Inhibitors; Proteolysis/Ubiquitin; Proteolytic Enzymes

References	1. Chen, I.-T., Dixit, A., Rhoads, D. D., Roufa, D. J. Homologous ribosomal proteins in bacteria, yeast, and humans. Proc. Nat. Acad. Sci. 83: 6907-6911, 1986.2. Dana, S., Wasmuth, J. J. Linkage of the leuS, emtB, and chr genes on chromosome 5 in humans and expression of human genes encoding protein synthetic components in human-Chinese hamster hybrids. Somat. Cell Genet. 8: 245-264, 1982. 3. Dana, S., Wasmuth, J. J. Selective linkage disruption in human-Chinese hamster cell hybrids: deletion mapping of the leuS, hexB, emtB, and chr genes on human chromosome 5. Molec. Cell. Biol. 2: 1220-1228, 1982.

NCBI AND UNIPROT INFORMATION

NCBI GI #	50403752
NCBI GeneID	6208
UniProt Accession #	P62263; P06366; Q5BJI0; B2R5G5; D3DQG5
Molecular Weight	151
NCBI Official Full Name	40S ribosomal protein S14
NCBI Official Synonym Full Names	ribosomal protein S14
NCBI Official Symbol	RPS14
NCBI Official Synonym Symbols	S14; EMTB
NCBI Protein Information	40S ribosomal protein S14; emetine resistance
UniProt Protein Name	40S ribosomal protein S14
UniProt Gene Name	**RPS14**
UniProt Entry Name	RS14_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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