

Rabbit RPS5 Polyclonal Antibody | anti-RPS5 antibody

Anti-RPS5 Antibody Picoband

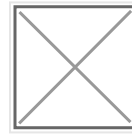
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19817	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

RPS5; Polyclonal Antibody; Anti-RPS5 Antibody Picoband; ring finger protein 31; E3 ubiquitin-protein ligase RNF31; HOIL-1-interacting protein; HOIP; RING finger protein 31; RING-type E3 ubiquitin transferase RNF31; Zinc in-between-RING-finger ubiquitin-associated domain protein; RNF31; ZIBRA; anti-RPS5 antibody

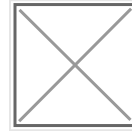
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in both normal and transformed breast epithelial cell lines.
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-RPS5 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Human, Mouse, Rat IHC(Paraffin-embedded Section): 2-5ug/ml, Human ICC/IF: 5ug/ml, Human IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human RPS5 recombinant protein (Position: M1-R204).
Subcellular Localization	Cytoplasm.
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	E3 ubiquitin-protein ligase component of the LUBAC complex which conjugates linear ('Met-1'-linked) polyubiquitin chains to substrates and plays a key role in NF-kappa-B activation and regulation of inflammation. LUBAC conjugates linear polyubiquitin to IKBKG and RIPK1 and is involved in activation of the canonical NF-kappa-B and the JNK signaling pathways. Linear ubiquitination mediated by the LUBAC complex interferes with TNF-induced cell death and thereby prevents inflammation. LUBAC is recruited to the TNF-R1 signaling complex (TNF-RSC) following polyubiquitination of TNF-RSC components by BIRC2 and/or BIRC3 and to conjugate linear polyubiquitin to IKBKG and possibly other components contributing to the stability of the complex. Together with OTULIN, the LUBAC complex regulates the canonical Wnt signaling during angiogenesis. Binds polyubiquitin of different linkage types.
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.



IF (Immunofluorescence)

Figure 8. IF analysis of RPS5 using anti-RPS5 antibody (AAA19817). RPS5 was detected in a paraffin-embedded section of human placenta 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 5µg/mL rabbit anti-RPS5 Antibody (AAA19817) 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. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF (Immunofluorescence)

Figure 6. IF analysis of RPS5 using anti-RPS5 antibody (AAA19817).RPS5 was detected in an immunocytochemical section of Hela cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-RPS5 Antibody (AAA19817) 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 (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-RPS5 Antibody (AAA19817) 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 (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-RPS5 Antibody (AAA19817) 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 (epitope retrieval solution). The tissue section was then incubated with 2ug/ml rabbit anti-RPS5 Antibody (AAA19817) 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 (Lane 2: human Hela whole cell lysates,Lane 3: human Jurkat whole cell lysates,Lane 4: human HepG2 whole cell lysates,Lane 5: rat liver tissue lysates,Lane 6: mouse liver tissue lysates,Lane 7: mouse ovary 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-RPS5 antigen affinity purified polyclonal antibody (#AAA19817) 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 RPS5 at approximately 23 kDa. The expected band size for RPS5 is at 23 kDa.

Related Product Information for anti-RPS5 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-RPS5 antibody	Primary Antibodies ; Developmental Biology ; Embryogenesis ; Lineage Markers ; Lineage Specification ; Secreted ; Signaling Pathways ; Stem Cells ; TGF Beta

References	1. Frigerio, J.-M., Berthezene, P., Garrido, P., Ortiz, E., Barthelley, S., Vasseur, S., Sastre, B., Seleznieff, I., Dagorn, J. C., Iovanna, J. L. Analysis of 2166 clones from a human colorectal cancer cDNA library by partial sequencing. Hum. Molec. Genet. 4: 37-43, 1995. 2. Frigerio, J.-M., Dagorn, J.-C., Iovanna, J. L. Cloning, sequencing and expression of the L5, L21, L27a, L28, S5, S9, S10 and S29 human ribosomal protein mRNAs. Biochim. Biophys. Acta 1262: 64-68, 1995.3. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	13904870
NCBI GeneID	6193
NCBI Accession #	NP_001000.2
NCBI GenBank Nucleotide #	NM_001009.3
UniProt Accession #	P46782; Q96BN0; B2R4T2
Molecular Weight	22,876 Da
NCBI Official Full Name	40S ribosomal protein S5
NCBI Official Synonym Full Names	ribosomal protein S5
NCBI Official Symbol	RPS5
NCBI Official Synonym Symbols	S5
NCBI Protein Information	40S ribosomal protein S5
UniProt Protein Name	40S ribosomal protein S5
UniProt Gene Name	RPS5
UniProt Entry Name	RS5_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.