

Rabbit RPS4/X/Y1/Y2 Polyclonal Antibody | anti-RPS4/X/Y1/Y2 antibody

Anti-RPS4/X/Y1/Y2 Antibody Picoband

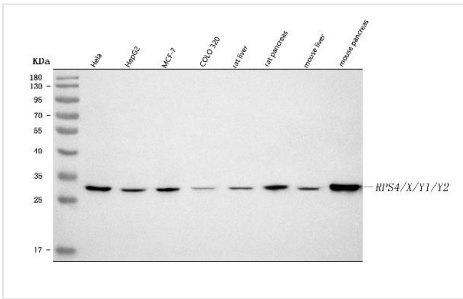
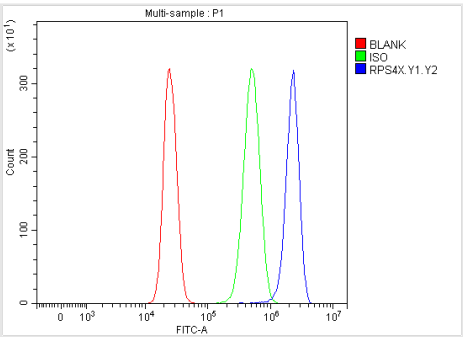
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127562	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

RPS4/X/Y1/Y2; Polyclonal Antibody; Anti-RPS4/X/Y1/Y2 Antibody Picoband; tudor domain containing 3; Tudor domain-containing protein 3; TDRD3; anti-RPS4/X/Y1/Y2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Detected in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
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-RPS4/X/Y1/Y2 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human RPS4/X/Y1/Y2 recombinant protein (Position: M1-G263).
Subcellular Localization	Nucleus, 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	Scaffolding protein that specifically recognizes and binds dimethylarginine-containing proteins. In nucleus, acts as a coactivator: recognizes and binds asymmetric dimethylation on the core histone tails associated with transcriptional activation (H3R17me2a and H4R3me2a) and recruits proteins at these arginine-methylated loci. In cytoplasm, may play a role in the assembly and/or disassembly of mRNA stress granules and in the regulation of translation of target mRNAs by binding Arg/Gly-rich motifs (GAR) in dimethylarginine-containing proteins.
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.



WB (Western Blot)

Figure 1. Western blot analysis of RPS4/X/Y1/Y2 using anti-RPS4/X/Y1/Y2 antibody (AAA127562). 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 MCF-7 whole cell lysates, Lane 4: human COLO 320 whole cell lysates, Lane 5: rat liver tissue lysates, Lane 6: rat pancreas tissue lysates, Lane 7: mouse liver tissue lysates, Lane 8: mouse pancreas 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-RPS4/X/Y1/Y2 antigen affinity purified polyclonal antibody (#AAA127562) 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 RPS4/X/Y1/Y2 at approximately 30 kDa. The expected band size for RPS4/X/Y1/Y2 is at 30 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RPS4/X/Y1/Y2 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-RPS4/X/Y1/Y2 antibody	Primary Antibodies; Adaptive Immunity; B Cells; Immunoglobulins; Immunology
References	1. Fisher, E. M. C., Beer-Romero, P., Brown, L. G., Ridley, A., McNeil, J. A., Lawrence, J. B., Willard, H. F., Bieber, F. R., Page, D. C. Homologous ribosomal protein genes on the human X and Y chromosomes: escape from X inactivation and possible implications for Turner syndrome. Cell 63: 1205-1218, 1990. 2. Geerkens, C., Just, W., Held, K. R., Vogel, W. Ullrich-Turner syndrome is not caused by haploinsufficiency of RPS4X. Hum. Genet. 97: 39-44, 1996. 3. Hamvas, R. M., Brown, S. D., Keer, J. T., Fisher, E. M., Romero, P., Zinn, A., Page, D. The mapping of the locus Rps4 to the X-inactivation region in the mouse. (Abstract) Cytogenet. Cell Genet. 58: 2065-2066, 1991.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506725
NCBI GeneID	6191
NCBI Accession #	NP_000998.1
NCBI GenBank Nucleotide #	NM_001007.4
UniProt Accession #	P62701; RPS4Y1; Q8TD47
Molecular Weight	29,598 Da
NCBI Official Full Name	40S ribosomal protein S4, X isoform X isoform
NCBI Official Synonym Full Names	ribosomal protein S4, X-linked
NCBI Official Symbol	RPS4X
NCBI Official Synonym Symbols	S4; CCG2; RPS4; SCAR; SCR10; DXS306

NCBI Protein Information	40S ribosomal protein S4, X isoform; cell cycle gene 2; single-copy abundant mRNA; ribosomal protein S4X isoform; single copy abundant mRNA protein
UniProt Protein Name	40S ribosomal protein S4, X isoform
UniProt Gene Name	RPS4X
UniProt Synonym Gene Names	CCG2; RPS4; SCAR
UniProt Entry Name	RS4X_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://www.aaabiotech.com/polyclonal/rps4-x-y1-y2-antibody-flow-cytometry-western-blot-elisa/127562>