

Rabbit RPL5 Polyclonal Antibody | anti-RPL5 antibody

RPL5 Antibody

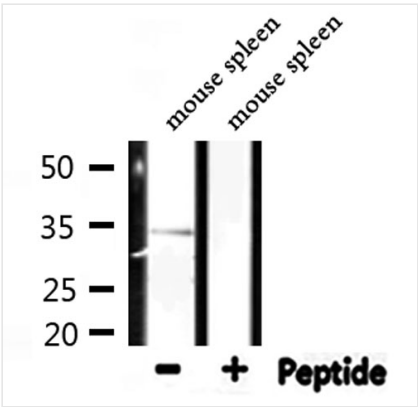
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324394	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

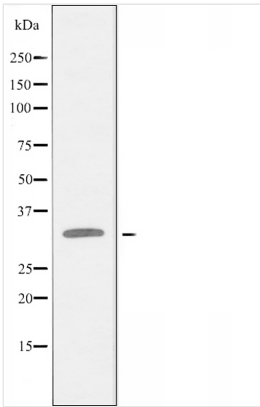
RPL5; Polyclonal Antibody; RPL5 Antibody; 60S ribosomal protein L5; DBA6; L5; MSTP030; PPP1R135; protein phosphatase 1; regulatory subunit 135; Ribosomal protein L5; RL5; RL5_HUMAN; RP L5; RPL 5; U21 RNA; U21RNA; anti-RPL5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RPL5 antibody detects endogenous levels of total RPL5
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	297
Applicable Applications for anti-RPL5 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm. Nucleus > Nucleolus.
Predicted Cross Reactivity	Bovine, Horse, Dog, Chicken, Xenopus
Similarity	Bovine (89%), Horse (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of extracts from mouse spleen, using RPL5 Antibody.



WB (Western Blot)
Western blot analysis of extracts from HepG2 cells using RPL5 antibody.



IF (Immunofluorescence)
AAA324394 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-RPL5 antibody

Function: Component of the ribosome, a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell. The small ribosomal subunit (SSU) binds messenger RNAs (mRNAs) and translates the encoded message by selecting cognate aminoacyl-transfer RNA (tRNA) molecules. The large subunit (LSU) contains the ribosomal catalytic site termed the peptidyl transferase center (PTC), which catalyzes the formation of peptide bonds, thereby polymerizing the amino acids delivered by tRNAs into a polypeptide chain. The nascent polypeptides leave the ribosome through a tunnel in the LSU and interact with protein factors that function in enzymatic processing, targeting, and the membrane insertion of nascent chains at the exit of the ribosomal tunnel. As part of the 5S RNP/5S ribonucleoprotein particle it is an essential component of the LSU, required for its formation and the maturation of rRNAs (PubMed:12962325, PubMed:19061985, PubMed:24120868, PubMed:23636399). It also couples ribosome biogenesis to p53/TP53 activation. As part of the 5S RNP it accumulates in the nucleoplasm and inhibits MDM2, when ribosome biogenesis is perturbed, mediating the stabilization and the activation of TP53 (PubMed:24120868).

Subunit Structure: Component of the large ribosomal subunit (LSU). Part of a LSU subcomplex, the 5S RNP which is composed of the 5S RNA, RPL5 and RPL11 (PubMed:24120868). Interacts with isoform 1 of NVL in an ATP-dependent manner (PubMed:15469983). Interacts with RRP1B (PubMed:20926688).

Similarity: Belongs to the universal ribosomal protein uL18 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	14591909
NCBI GeneID	6125
NCBI Accession #	NP_000960.2

NCBI GenBank Nucleotide #	NM_000969.5
UniProt Accession #	P46777 ; Q32LZ3 ; Q53HH6 ; Q9H3F4
Molecular Weight	Observed: 34 kD Predicted: 35 kDa
NCBI Official Full Name	60S ribosomal protein L5
NCBI Official Synonym Full Names	ribosomal protein L5
NCBI Official Symbol	RPL5
NCBI Official Synonym Symbols	L5; uL18; MSTP030; PPP1R135
NCBI Protein Information	60S ribosomal protein L5
UniProt Protein Name	60S ribosomal protein L5
UniProt Gene Name	RPL5

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://stage.aaabiotech.com/polyclonal/rpl5-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/324394>