

Anti-RPL5 / Ribosomal Protein L5 Antibody
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17932**Specification**

Anti-RPL5 / Ribosomal Protein L5 Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	P46777
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	34363

Anti-RPL5 / Ribosomal Protein L5 Antibody - Additional Information**Gene ID** 6125**Alias Symbol** **RPL5****Other Names**

RPL5, 60S ribosomal protein L5, DBA6, L5, Ribosomal protein L5, MSTP030

Target/Specificity

Human RPL5 / L5

Reconstitution & Storage

Caprylic acid and ammonium sulfate precipitation

Precautions

Anti-RPL5 / Ribosomal Protein L5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-RPL5 / Ribosomal Protein L5 Antibody - Protein Information**Name** RPL5**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).

Cellular Location

Cytoplasm {ECO:0000269|PubMed:15469983, ECO:0000269|Ref.7}. Nucleus, nucleolus {ECO:0000269|PubMed:15469983, ECO:0000269|Ref.7}. Note=Although RPL5 is functional within the cytoplasm, the assembly of ribosomal subunits occurs in the nucleus RPL5 nuclear import is mediated by IPO5/RanBP5, IPO7/RanBP7, KPNB1/importin-beta or TPNO1/Trn.

Anti-RPL5 / Ribosomal Protein L5 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-RPL5 / Ribosomal Protein L5 Antibody - Images