

Recombinant Human RPL7, His-tagged

Cat. No. RPL7-31336TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 17-248 of Human RPL7 with N terminal His tag. MWt: 27 kDa;
Species	Human
Source	E.coli
ProteinLength	17-248 a.a.
Description	Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 60S subunit. The protein belongs to the L30P family of ribosomal proteins. It contains an N-terminal basic region-leucine zipper (BZIP)-like domain and the RNP consensus submotif RNP2. In vitro the BZIP-like domain mediates homodimerization and stable binding to DNA and RNA, with a preference for 28S rRNA and mRNA. The protein can inhibit cell-free translation of mRNAs, suggesting that it plays a regulatory role in the translation apparatus. It is located in the cytoplasm. The protein has been shown to be an autoantigen in patients with systemic autoimmune diseases, such as systemic lupus erythematosus. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.
Conjugation	HIS

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Form	Lyophilised:Reconstitute with 65 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	TLKKKRRNFAELKIKRLRKKFAQKMLRKARRKLIYEKAKH YHKEYRQMYRTEIRMAR MARKAGNFYVPAEPKLAFLVIR IRGINGVSPKVRKVLQLLRLRQIFNGTFVKLNKASIN M LRIVEPYIAWGYPNLKSVNELIYKRGYKINKKRIALTDNALIARSLGKYGIICMEDLI HEIYTVGKRKFKEANNFLWP FKLSSPRGGMKKKTTHFVEGGDAGNREDQINRLIRRM N(Amino acid sequence (Sequence determined by 5 Sequencing))
Sequence Similarities	Belongs to the ribosomal protein L30P family.

GENE INFORMATION

Gene Name	RPL7 ribosomal protein L7 [Homo sapiens]
Official Symbol	RPL7
Synonyms	RPL7; ribosomal protein L7; 60S ribosomal protein L7; humL7 1; L7;
Gene ID	6129
mRNA Refseq	NM_000971
Protein Refseq	NP_000962
MIM	604166

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Uniprot ID	P18124
Chromosome Location	8q13.3
Pathway	Cap-dependent Translation Initiation, organism-specific biosystem; Cytoplasmic Ribosomal Proteins, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Eukaryotic Translation Elongation, organism-specific biosystem;
Function	DNA binding; RNA binding; mRNA binding; protein homodimerization activity; structural constituent of ribosome;

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