RPL7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RPL7, Polyclonal Antibody
Full Product Name	RPL7, NT (RPL7, 60S ribosomal protein L7) (MaxLight 490)
Product Gene Name	anti-RPL7 antibody
Product Synonym Names	RPL7; 60S ribosomal protein L7
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	29,226 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (74202874..74205869, complement). Location: 8q21.11
OMIM	604166
3D Structure	ModBase 3D Structure for P18124
Immunogen	RPL7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 5-35 amino acids from the N-terminal region of human RPL7.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-RPL7 antibody	Antibodies; Ribosomal Proteins
Applications Tested/Suitable for anti-RPL7 antibody	Western Blot (WB), FLISA
Application Notes for anti-RPL7 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-RPL7 antibody	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.

Product References and Citations for anti-RPL7 antibody	Chou, C.W., et al. FEBS Lett. 584(19):4151-4156(2010). Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Maggi, L.B. Jr., et al. Mol. Cell. Biol. 28(23):7050-7065(2008). Robledo, S., et al. RNA 14(9):1918-1929(2008). Wu, W.C., et al. FEBS Lett. 581(4):651-657(2007).
Other Notes	Small volumes of anti-RPL7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RPL7 purchase	MBS6343584 is an antibody targeting RPL7. Also known as RPL7, NT (RPL7, 60S ribosomal protein L7) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RPL7. It may not necessarily be applicable to this product.

NCBI GI #	15431301
NCBI GeneID	6129
NCBI Accession #	NP_000962.2
UniProt Primary Accession #	P18124
UniProt Secondary Accession #	Q15289; Q3KQU0; Q5I0X1; Q6IBM9; A8K504
UniProt Related Accession #	P18124
GenBank Nucleotide #	NM_000971.3
NCBI Official Full Name	60S ribosomal protein L7
NCBI Official Synonym Full Names	ribosomal protein L7
NCBI Official Symbol	RPL7
NCBI Official Synonym Symbols	L7; humL7-1
UniProt Protein Name	60S ribosomal protein L7
Protein Family	60S ribosomal protein
UniProt Gene Name	RPL7
UniProt Entry Name	RL7_HUMAN
NCBI Protein Information	60S ribosomal protein L7
UniProt Comments for RPL7	RPL7: a ribosomal protein of the L30P family. Located in the cytoplasm. 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 protein is a component of the 60S subunit. 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. Can inhibit cell-free translation of mRNAs, suggesting that it plays a regulatory role in the translation apparatus. Protein type: RNA processing; Nuclear receptor co-regulator; Ribosomal Chromosomal Location of Human Ortholog: 8q21.11 Cellular Component: focal adhesion; membrane; cytoplasm; nucleolus; cytosol; ribonucleoprotein complex; nucleus Molecular Function: mRNA binding; protein binding; protein homodimerization activity; structural constituent of ribosome; DNA binding; RNA binding Biological Process: SRP-dependent cotranslational protein targeting to membrane; translation; viral reproduction; translational termination; ribosomal large subunit biogenesis and assembly; viral infectious cycle; cellular protein metabolic process; translational elongation; mRNA catabolic process, nonsense-mediated decay; translational initiation; viral transcription; gene expression; rRNA processing

Research Articles on RPL7	**1.** In case of L7, importin beta2 or importin beta3 are preferentially used by clusters with a high import efficiency.
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