60s Ribosomal Protein L7 (RPL7) ELISA Kit for Goat

PRODUCT OVERVIEW

Product Name	60S ribosomal protein L7 (RPL7), ELISA Kit
Full Product Name	Goat 60S ribosomal protein L7 (RPL7) ELISA Kit
Product Gene Name	RPL7 elisa kit
Species Reactivity	Goat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	29,226 Da
OMIM	604166
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for RPL7 elisa kit	Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for RPL7 elisa kit	MBS7222126 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the 60S ribosomal protein L7 (RPL7) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing RPL7. The ELISA analytical biochemical technique of the MBS7222126 kit is based on RPL7 antibody-RPL7 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect RPL7 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, RPL7. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of RPL7 elisa kit 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.

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 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
NCBI Summary for RPL7	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. [provided by RefSeq, Jul 2008]
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: Ribosomal; RNA processing; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 8q21.11 Cellular Component: focal adhesion; membrane; cytoplasm; nucleolus; nucleus; cytosol; ribonucleoprotein complex Molecular Function: mRNA binding; protein binding; protein homodimerization activity; DNA binding; structural constituent of ribosome; RNA binding Biological Process: SRP-dependent cotranslational protein targeting to membrane; viral reproduction; translation; viral infectious cycle; ribosomal large subunit biogenesis and assembly; translational termination; cellular protein metabolic process; translational elongation; mRNA catabolic process, nonsense-mediated decay; translational initiation; gene expression; viral transcription; 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.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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