60s Ribosomal Protein L35a (RPL35A) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	60S ribosomal protein L35a (RPL35A), ELISA Kit
Full Product Name	Mouse 60S ribosomal protein L35a (RPL35A) ELISA Kit
Product Gene Name	RPL35A elisa kit
Species Reactivity	Mouse
Assay Type	Competitive
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	1.0-25ng/mL
Sensitivity	0.1ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	12,538 Da
OMIM	gene 612528
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 RPL35A elisa kit	Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for RPL35A elisa kit	MBS7245003 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the 60S ribosomal protein L35a (RPL35A) 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 RPL35A. The ELISA analytical biochemical technique of the MBS7245003 kit is based on RPL35A antibody-RPL35A antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect RPL35A antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, RPL35A. 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 RPL35A 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 RPL35A. It may not necessarily be applicable to this product.

NCBI GI #	16117791
NCBI GeneID	6165
NCBI Accession #	NP_000987.2
UniProt Secondary Accession #	Q08ES9; Q9BVN7
UniProt Related Accession #	P18077
GenBank Nucleotide #	NM_000996.2

NCBI Official Full Name	60S ribosomal protein L35a
NCBI Official Synonym Full Names	ribosomal protein L35a
NCBI Official Symbol	RPL35A
NCBI Official Synonym Symbols	DBA5; L35A
UniProt Protein Name	60S ribosomal protein L35a
UniProt Synonym Protein Names	Cell growth-inhibiting gene 33 protein
Protein Family	60S ribosomal protein
UniProt Gene Name	RPL35A
UniProt Synonym Gene Names	GIG33
UniProt Entry Name	RL35A_HUMAN
NCBI Protein Information	60S ribosomal protein L35a; cell growth-inhibiting gene 33 protein
NCBI Summary for RPL35A	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 L35AE family of ribosomal proteins. It is located in the cytoplasm. The rat protein has been shown to bind to both initiator and elongator tRNAs, and thus, it is located at the P site, or P and A sites, of the ribosome. Although this gene was originally mapped to chromosome 18, it has been established that it is located at 3q29-qter. Transcript variants utilizing alternative transcription initiation sites and alternative polyA signals exist. 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 RPL35A	RPL35A: Required for the proliferation and viability of hematopoietic cells. Plays a role in 60S ribosomal subunit formation. The protein was found to bind to both initiator and elongator tRNAs and consequently was assigned to the P site or P and A site. Defects in RPL35A are the cause of Diamond-Blackfan anemia type 5 (DBA5). DBA5 is a form of Diamond- Blackfan anemia, a congenital non-regenerative hypoplastic anemia that usually presents early in infancy. Diamond-Blackfan anemia is characterized by a moderate to severe macrocytic anemia, erythroblastopenia, and an increased risk of malignancy. 30 to 40% of Diamond-Blackfan anemia patients present with short stature and congenital anomalies, the most frequent being craniofacial (Pierre-Robin syndrome and cleft palate), thumb and urogenital anomalies. Belongs to the ribosomal protein L35Ae family. Protein type: Translation; RNA-binding; Ribosomal Chromosomal Location of Human Ortholog: 3q29 Cellular Component: mitochondrion; membrane; cytosol Molecular Function: structural constituent of ribosome; tRNA binding Biological Process: SRP-dependent cotranslational protein targeting to membrane; viral reproduction; translation; 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; gene expression; viral transcription; rRNA processing Disease: Diamond-blackfan Anemia 5
Research Articles on RPL35A	**1.** Data show 1 proband with an RPL5 deletion, 1 patient with an RPL35A deletion, 3 with RPS17 deletions, and 1 with an RPS19 deletion.
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