RPL35A Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	RPL35A, Lysate
Full Product Name	Human RPL35A Protein Lysate
Product Gene Name	RPL35A lysate
Product Synonym Names	RPL35A; DBA5; L35A
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	14.9 kDa (133aa)
OMIM	180468
3D Structure	ModBase 3D Structure for P18077
Related Product Information for RPL35A lysate	Human RPL35A Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of RPL35A lysate 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 RPL35A purchase	MBS8418797 is a lysate targeting RPL35A. Also known as Human RPL35A Protein Lysate. Host: Human.

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
UniProt Primary Accession #	P18077
UniProt Secondary Accession #	Q08ES9; Q9BVN7
UniProt Related Accession #	P18077
GenBank Nucleotide #	NM_000996
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 Entry Name	RL35A_HUMAN
NCBI Protein Information	60S ribosomal protein L35a
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. Alternative splicing results in multiple transcript variants. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq, Oct 2015]
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: RNA-binding; Ribosomal; Translation Chromosomal Location of Human Ortholog: 3q29 Cellular Component: membrane; mitochondrion; cytosol Molecular Function: structural constituent of ribosome; tRNA binding Biological Process: SRP-dependent cotranslational protein targeting to membrane; translation; viral reproduction; translational termination; viral infectious cycle; ribosomal large subunit biogenesis and assembly; cellular protein metabolic process; translational elongation; mRNA catabolic process, nonsense-mediated decay; translational initiation; viral transcription; gene expression; rRNA processing Disease: Diamond-blackfan Anemia 5
Research Articles on RPL35A	**1.** We identified 85 overlapping deletions, of which six included the RPL35A gene and all should be had Diamond-Blackfan anemia (DBA).we sequenced the remaining RNF168 gene and examined her fibroblast culture for a DNA double strand break repair deficiency. These results were normal, indicating that the immunodeficiency is unlikely to result from a RNF168 deficiency.
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