RPL35A Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	RPL35A, Blocking Peptide
Full Product Name	RPL35A Blocking Peptide
Product Gene Name	RPL35A blocking peptide
Product Synonym Names	60S ribosomal protein L35a; Cell growth-inhibiting gene 33 protein; DBA5; L35A; Ribosomal Protein L35a; RL35A_HUMAN; RPL35A
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	RPL35A peptide (MBS9628152) is used for blocking the activity of RPL35A antibody (MBS9609448)
Molecular Weight	12,538 Da
OMIM	180468
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for RPL35A blocking peptide	Blocking/Control
Related Product Information for RPL35A blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of RPL35A blocking peptide 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	MBS9628152 is a blocking peptide targeting RPL35A.

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 Primary Accession #	P18077
UniProt Secondary Accession #	Q08ES9; Q9BVN7

UniProt Related Accession #	P18077
GenBank Nucleotide #	NM_000996.4
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; 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: 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.** 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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