RPL3 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	RPL3, Blocking Peptide
Full Product Name	RPL3 Blocking Peptide
Product Gene Name	RPL3 blocking peptide
Product Synonym Names	60S ribosomal protein L3; HIV-1 TAR RNA-binding protein B; HIV1 TAR RNA binding protein B; MGC103388; MGC104284; MGC72934; Ribosomal protein L3; Ribosomal protein L3, isoform a; RL3_HUMAN; rpl3; TARBP B; TARBP-B
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	RPL3 peptide (MBS9623879) is used for blocking the activity of RPL3 antibody (MBS9605162)
Molecular Weight	46,109 Da
Chromosome Location	Chromosome: 22; NC_000022.10 (39708887..39715670, complement). Location: 22q13
OMIM	604163
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 RPL3 blocking peptide	Blocking/Control
Related Product Information for RPL3 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 RPL3 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 RPL3 purchase	MBS9623879 is a blocking peptide targeting RPL3.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RPL3. It may not necessarily be applicable to this product.

NCBI GI #	4506649
NCBI GeneID	6122
NCBI Accession #	NP_000958.1
UniProt Primary Accession #	P39023

UniProt Secondary Accession #	Q15548; Q5I0G0; B2RDV9
UniProt Related Accession #	P39023
GenBank Nucleotide #	NM_000967.3
NCBI Official Full Name	60S ribosomal protein L3 isoform a
NCBI Official Synonym Full Names	ribosomal protein L3
NCBI Official Symbol	RPL3
NCBI Official Synonym Symbols	L3; ASC-1; TARBP-B
UniProt Protein Name	60S ribosomal protein L3
UniProt Synonym Protein Names	HIV-1 TAR RNA-binding protein B
Protein Family	50S ribosomal protein
UniProt Gene Name	RPL3
UniProt Synonym Gene Names	TARBP-B
UniProt Entry Name	RL3_HUMAN
NCBI Protein Information	60S ribosomal protein L3; hypothetical protein; HIV-1 TAR RNA-binding protein B; ribosomal protein L3, isoform a
NCBI Summary for RPL3	Ribosomes, the complexes 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 L3P family of ribosomal proteins and it is located in the cytoplasm. The protein can bind to the HIV-1 TAR mRNA, and it has been suggested that the protein contributes to tat-mediated transactivation. This gene is co-transcribed with several small nucleolar RNA genes, which are located in several of this gene's introns. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. 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 RPL3	RPL3: The L3 protein is a component of the large subunit of cytoplasmic ribosomes. Belongs to the ribosomal protein L3P family. Protein type: Translation; Nucleolus; Ribosomal Chromosomal Location of Human Ortholog: 22q13 Cellular Component: nucleoplasm; focal adhesion; cytoplasm; nucleolus; cytosol; nucleus Molecular Function: structural constituent of ribosome; RNA binding Biological Process: SRP-dependent cotranslational protein targeting to membrane; cellular protein metabolic process; translational elongation; viral reproduction; translation; translational initiation; mRNA catabolic process, nonsense-mediated decay; gene expression; viral transcription; translational termination; viral infectious cycle
Research Articles on RPL3	**1.** NPM and KHSRP are two newly identified proteins involved in the regulation of rpL3 gene expression via alternative pre-mRNA splicing.
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