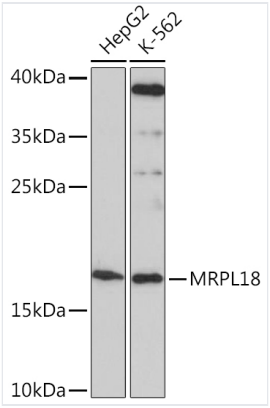
MRPL18 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MRPL18, Polyclonal Antibody
Full Product Name	MRPL18 Rabbit pAb
Product Gene Name	anti-MRPL18 antibody
Product Synonym Names	MRPL18; HSPC071; L18mt; MRP-L18
Immunogen Sequence	MALRSRFWGL FSVCRNPGCR FAALSTSSEP AAKPEVDPVE NEAVAPEFTN RNPRNLELLS VARKERGWRT VFPSREFWHR LRVIRTQHHV EA
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	20,577 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (160211492..160219461). Location: 6q25.3
OMIM	611831
3D Structure	ModBase 3D Structure for Q9H0U6
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-92 of human MRPL18 (NP_054880.2).
Positive Samples	HepG2, K-562
Product Categories/Family for anti-MRPL18 antibody	Endocrine & Metabolism; Mitochondrial metabolism; Mitochondrial markers; Research; Endocrine & Metabolism; Mitochondrial metabolism; Mitochondrial translation
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MRPL18 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-MRPL18 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:50-1:200
Related Product Information for anti-MRPL18 antibody	Background: This nuclear gene encodes a protein component of the larger 39S subunit of mitochondrial ribosome. This protein may also aid in the import of nuclear-encoded 5S rRNA into mitochondria. Alternative splicing results in multiple transcript variants, most of which are not predicted to encode a protein. A pseudogene of this gene is found on chromosome 16.
Other Notes	Small volumes of anti-MRPL18 antibody 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 MRPL18 purchase	MBS9142230 is an antibody targeting MRPL18. Also known as MRPL18 Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-MRPL18 antibody
Western blot analysis of extracts of various cell lines, using MRPL18 Rabbit pAb at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Enhanced Kit (RM00021).Exposure time: 90s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRPL18. It may not necessarily be applicable to this product.

NCBI GI #	21265080
NCBI GeneID	29074
NCBI Accession #	NP_054880.2
UniProt Primary Accession #	Q9H0U6
UniProt Secondary Accession #	Q5TAP9; Q9NZW8
UniProt Related Accession #	Q9H0U6
GenBank Nucleotide #	NM_014161.3
NCBI Official Full Name	39S ribosomal protein L18, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein L18
NCBI Official Symbol	MRPL18
NCBI Official Synonym Symbols	L18mt; HSPC071; MRP-L18
UniProt Protein Name	39S ribosomal protein L18, mitochondrial
UniProt Gene Name	MRPL18
UniProt Synonym Gene Names	L18mt; MRP-L18
UniProt Entry Name	RM18_HUMAN
NCBI Protein Information	39S ribosomal protein L18, mitochondrial
NCBI Summary for MRPL18	Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 39S subunit protein that belongs to the L18P ribosomal protein family. Three polymorphic sites exist in this gene, one of which is three nt in length which causes an extra aa near the N-terminus. [provided by RefSeq, Jul 2008]

UniProt Comments for MRPL18	MRPL18: Together with thiosulfate sulfurtransferase (TST), acts as a mitochondrial import factor for the cytosolic 5S rRNA. The precursor form shows RNA chaperone activity; is able to fold the 5S rRNA into an import-competent conformation that is recognized by rhodanese (TST). Both the cytoplasmic and mitochondrial forms are able to bind to the helix IV-loop D in the gamma domain of the 5S rRNA. Belongs to the ribosomal protein L18P family. Protein type: Translation; Ribosomal; Mitochondrial Chromosomal Location of Human Ortholog: 6q25.3 Cellular Component: extracellular space; mitochondrion; mitochondrial inner membrane; mitochondrial ribosome Molecular Function: structural constituent of ribosome; 5S rRNA binding Biological Process: mitochondrial translation; translation; organelle organization and biogenesis
Research Articles on MRPL18	**1.** Observational study of gene-disease association. (HuGE Navigator)
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