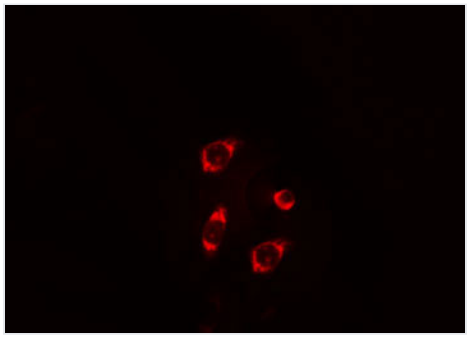
MRPL4 Antibody – Rabbit Polyclonal

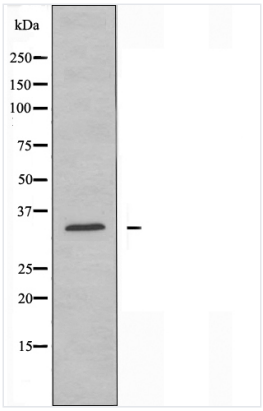
PRODUCT OVERVIEW

Product Name	MRPL4, Polyclonal Antibody
Full Product Name	MRPL4 Antibody
Product Gene Name	anti-MRPL4 antibody
Product Synonym Names	39S ribosomal protein L4; 39S ribosomal protein L4 mitochondrial; CDABP0091; CGI-28; L4mt; mitochondrial; Mitochondrial ribosomal protein L4; MNCb-3848; MRP-L4; MRPL4; RM04_HUMAN
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	MRPL4 antibody detects endogenous levels of total MRPL4
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	MRPL4 peptide (MBS9624348) is used for blocking the activity of MRPL4 antibody (MBS9605631)
Molecular Weight	Observed: 35 kD Predicted: 35 kDa
3D Structure	ModBase 3D Structure for Q9BYD3
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.
Immunogen	A synthesized peptide
Subcellular Location	Mitochondrion
Predicted Cross Reactivity	**Pig, Zebrafish, Bovine, Horse, Sheep, Dog, Xenopus**
Similarity	Pig (100%), Zebrafish (80%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Xenopus (90%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MRPL4 antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-MRPL4 antibody	WB: 1:500-1:1000 IF/ICC: 1:100-1:500

Related Product Information for anti-MRPL4 antibody	Subunit Structure: Component of the mitochondrial large ribosomal subunit (mt-LSU). Mature mammalian 55S mitochondrial ribosomes consist of a small (28S) and a large (39S) subunit. The 28S small subunit contains a 12S ribosomal RNA (12S mt-rRNA) and 30 different proteins. The 39S large subunit contains a 16S rRNA (16S mt-rRNA), a copy of mitochondrial valine transfer RNA (mt-tRNA(Val)), which plays an integral structural role, and 52 different proteins. Similarity: Belongs to the universal ribosomal protein uL4 family.
Other Notes	Small volumes of anti-MRPL4 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 MRPL4 purchase	MBS9605631 is an antibody targeting MRPL4. Also known as MRPL4 Antibody. Reactive in Human, Mouse. Host: Rabbit.



Immunofluorescence (IF) of anti-MRPL4 antibody
MBS9605631 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



Western Blot (WB) of anti-MRPL4 antibody
Western blot analysis of extracts from COLO cells, using MRPL4 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRPL4. It may not necessarily be applicable to this product.

NCBI GI #	22547136
NCBI GeneID	51073
NCBI Accession #	NP_057040.2
UniProt Primary Accession #	Q9BYD3
UniProt Secondary Accession #	Q9BW07; Q9H4N2; Q9Y317; A6NNV7
UniProt Related Accession #	Q9BYD3
GenBank Nucleotide #	NM_015956.2
NCBI Official Full Name	39S ribosomal protein L4, mitochondrial isoform a
NCBI Official Synonym Full Names	mitochondrial ribosomal protein L4
NCBI Official Symbol	MRPL4
NCBI Official Synonym Symbols	L4mt; CGI-28
UniProt Protein Name	39S ribosomal protein L4, mitochondrial
UniProt Synonym Protein Names	Mitochondrial large ribosomal subunit protein uL4m
Protein Family	39S ribosomal protein
UniProt Gene Name	MRPL4
UniProt Synonym Gene Names	L4mt; MRP-L4

NCBI Protein Information	39S ribosomal protein L4, mitochondrial
NCBI Summary for MRPL4	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. Sequence analysis identified alternatively spliced variants that encode different protein isoforms. [provided by RefSeq, Jul 2008]
Research Articles on MRPL4	**1.** there is a strong association between allergic rhinitis risk and polymorphisms of MRPL4 and TNF-alpha genes in the Han Chinese population
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