



MRP-L54 rabbit pAb

Cat No.:ES2844

For research use only

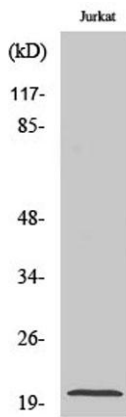
Overview

Product Name	MRP-L54 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human MRPL54. AA range:81-130
Specificity	MRP-L54 Polyclonal Antibody detects endogenous levels of MRP-L54 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	39S ribosomal protein L54 mitochondrial
Gene Name	MRPL54
Cellular localization	Mitochondrion .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	20kD
Human Gene ID	116541
Human Swiss-Prot Number	Q6P161
Alternative Names	MRPL54; 39S ribosomal protein L54; mitochondrial; L54mt; MRP-L54
Background	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



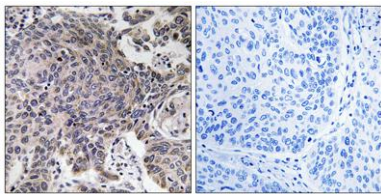


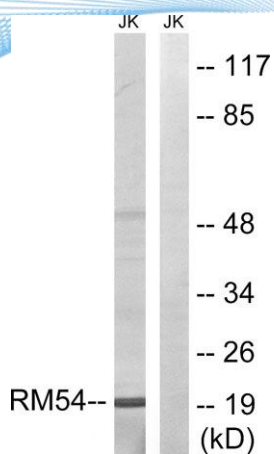
estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 39S subunit protein. [provided by RefSeq, Jul 2008],



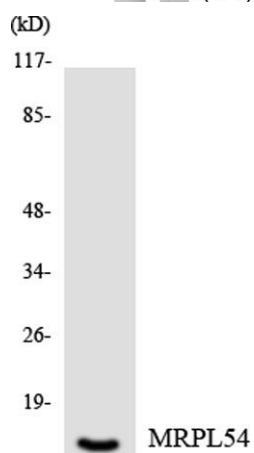
Western Blot analysis of various cells using MRP-L54 Polyclonal Antibody diluted at 1:2000

Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using MRPL54 Antibody. The picture on the right is blocked with the synthesized peptide.





Western blot analysis of lysates from Jurkat cells, using MRPL54 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HT-29 cells using MRPL54 antibody.

