

## MRP-L54 Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP05598
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	20ul, 50ul, 100ul
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human MRPL54. AA range:81-130
<b>Mol wt</b>	15819
<b>Species reactivity</b>	Human, Mouse
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	WB, IHC-p, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	MRP-L54 Antibody
<b>Synonyms</b>	MRPL54; 39S ribosomal protein L54; mitochondrial; L54mt; MRP-L54

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

Mammalian mitochondrial ribosomal protein L 54 (39S ribosomal protein L54 mitochondrial) is encoded by nuclear gene MRPL54 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.

### Recommended Dilution

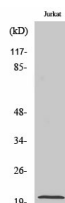
WB: 1: 500 - 1: 2000

IHC: 1: 100 - 1: 300

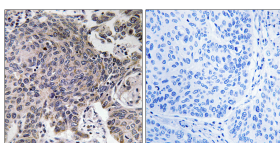
ELISA: 1: 40000

Not yet tested in other applications.

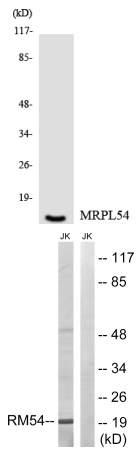
### Images



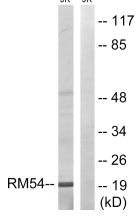
Western Blot analysis of various cells using MRP-L54 Polyclonal Antibody diluted at 1:2000



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 the lysates from HT-29 cells using MRPL54 antibody.



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

### Storage

-20°C for one year

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