Product Datasheet

MRPL54 Antibody

Catalog No: #34313

Package Size: #34313-1 50ul #34313-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

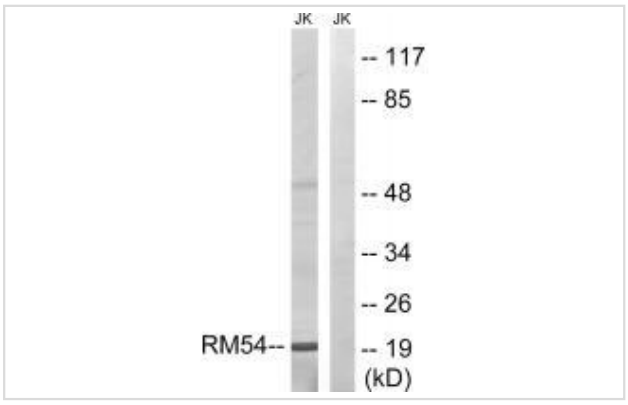
Product Name	MRPL54 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total MRPL54 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human MRPL54.
Target Name	MRPL54
Other Names	39S ribosomal protein 54; mitochondrial; L54mt; mitochondrial ribosomal protein L54; MRP-L54
Accession No.	Swiss-Prot: Q6P161NCBI Gene ID: 116541
Uniprot	Q6P161
GeneID	116541;
SDS-PAGE MW	20kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

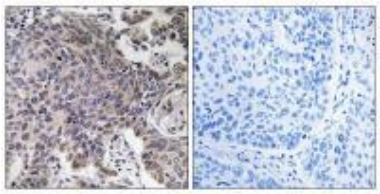
Western blotting: 1:500~1:3000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from Jurkat cells, using MRPL54 antibody #34313.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue using MRPL54 antibody #34313.

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.

The MGC Project Team; Genome Res. 14:2121-2127(2004).
Colinge J., Submitted (OCT-2008) to UniProtKB.

Note: This product is for in vitro research use only