MRPL4 Antibody

Catalog No: #34803

Package Size: #34803-1 50ul #34803-2 100ul

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

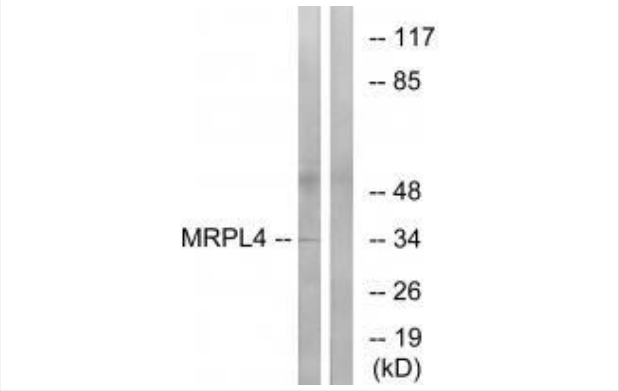
Description

Product Name	MRPL4 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous levels of total MRPL4 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human MRPL4.
Target Name	MRPL4
Other Names	CGI-28; L4mt; mitochondrial ribosomal protein L4; RM04;
Accession No.	Swiss-Prot: Q9BYD3NCBI Gene ID: 51073
Uniprot	Q9BYD3
GeneID	51073;
SDS-PAGE MW	35kd
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

Images



Western blot analysis of extracts from COLO cells, using MRPL4 antibody #34803.

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. Sequence analysis identified alternatively spliced variants that encode different protein isoforms.

Suzuki T., J. Biol. Chem. 276:21724-21736(2001).
Lai C.-H., Genome Res. 10:703-713(2000).
Grimwood J., Nature 428:529-535(2004).

Note: This product is for in vitro research use only