Product Datasheet

MRPL3 Antibody

Catalog No: #34801

Package Size: #34801-1 50ul #34801-2 100ul

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

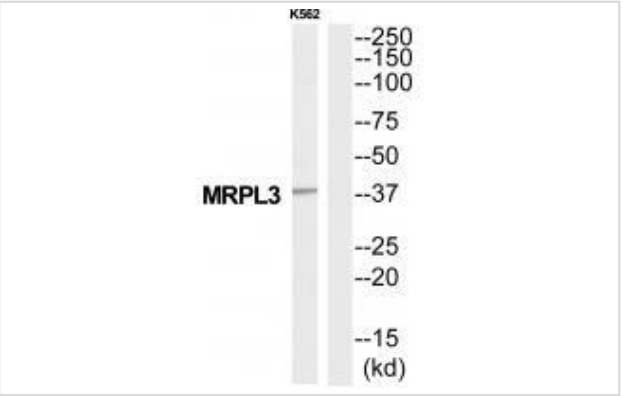
Description

Product Name	MRPL3 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
Specificity	The antibody detects endogenous levels of total MRPL3 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from Internal of human MRPL3.
Target Name	MRPL3
Other Names	39S ribosomal protein L3; mitochondrial; L3mt; mitochondrial 60S ribosomal protein L3; mitochondrial ribosomal protein L3
Accession No.	Swiss-Prot: P09001NCBI Gene ID: 11222
Uniprot	P09001
GeneID	11222;
SDS-PAGE MW	38kd
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 K562 cells, using MRPL3 antibody #34801.

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 that belongs to the L3P ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome 13q.

Ou J.-H., Nucleic Acids Res. 15:8919-8934(1987).
Ebert L., Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Burkard T.R., BMC Syst. Biol. 5:17-17(2011).

Note: This product is for in vitro research use only