

MRPL20 Antibody

Catalog No: #34322

Package Size: #34322-1 50ul #34322-2 100ul

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

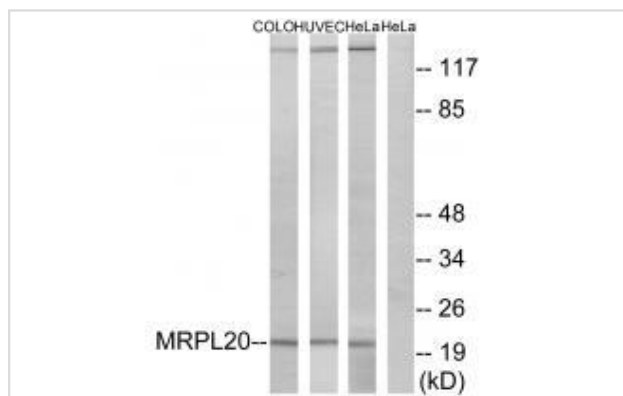
Description

Product Name	MRPL20 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 Rt
Specificity	The antibody detects endogenous levels of total MRPL20 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from C-terminal of human MRPL20.
Target Name	MRPL20
Other Names	39S ribosomal protein L20; mitochondrial [Precursor]; L20mt; MRP-L20; MRPL20
Accession No.	Swiss-Prot: Q9BYC9NCBI Gene ID: 55052
Uniprot	Q9BYC9
GeneID	55052;
SDS-PAGE MW	22kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), 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, HUVEC cells and HeLa cells, using MRPL20 antibody #34322.

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. A pseudogene corresponding to this gene is found on chromosome 21q.

Suzuki T., J. Biol. Chem. 276:21724-21736(2001).

Gregory S.G., Nature 441:315-321(2006).

The MGC Project Team; Genome Res. 14:2121-2127(2004).

Note: This product is for in vitro research use only