Product Datasheet

MRPS27 Antibody

Catalog No: #34793

Package Size: #34793-1 50ul #34793-2 100ul

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

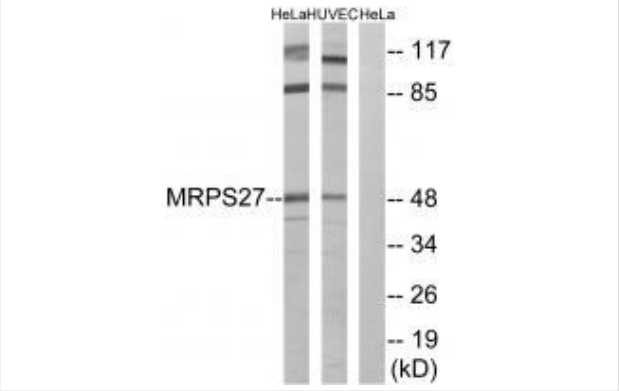
Description

Product Name	MRPS27 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 MRPS27 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human MRPS27.
Target Name	MRPS27
Other Names	mitochondrial 28S ribosomal protein S27; mitochondrial ribosomal protein S27; MRP-S27; RT27; S27mt
Accession No.	Swiss-Prot: Q92552NCBI Gene ID: 23107
Uniprot	Q92552
GeneID	23107;
SDS-PAGE MW	48kd
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 HeLa cells and HUVEC cells, using MRPS27 antibody #34793.

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 28S subunit protein that may be a functional partner of the death associated protein 3 (DAP3). Alternative splicing results in multiple transcript variants encoding different isoforms.

Nagase T., DNA Res. 3:321-329(1996).
Koc E.C., Protein Sci. 10:471-481(2001).

Note: This product is for in vitro research use only