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MRP-S16 rabbit pAb

Cat No.:ES6492

For research use only

Overview

Product Name	MRP-S16 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human MRPS16. AA range:81-130
Specificity	MRP-S16 Polyclonal Antibody detects endogenous levels of MRP-S16 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	28S ribosomal protein S16 mitochondrial
Gene Name	MRPS16
Cellular localization	Mitochondrion .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	15kD
Human Gene ID	51021
Human Swiss-Prot Number	Q9Y3D3
Alternative Names	MRPS16; RPMS16; CGI-132; 28S ribosomal protein S16; mitochondrial; MRP-S16; S16mt
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

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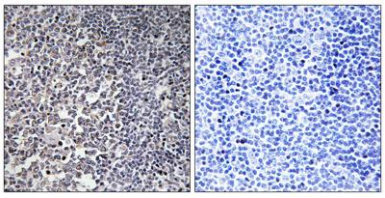
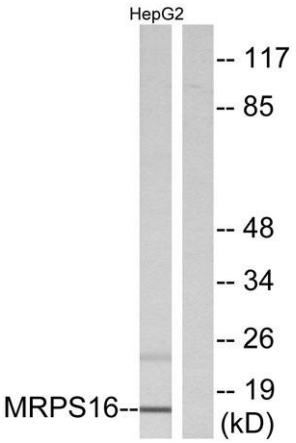
estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 28S subunit protein that belongs to the ribosomal protein S16P family. The encoded protein is one of the most highly conserved ribosomal proteins between mammalian and yeast mitochondria. Three pseudogenes (located at 8q21.3, 20

Immunohistochemistry analysis of paraffin-embedded human tonsil tissue, using MRPS16 Antibody. The picture on the right is blocked with the synthesized peptide.





Western blot analysis of lysates from HepG2 cells, using MRPS16 Antibody. The lane on the right is blocked with the synthesized peptide.

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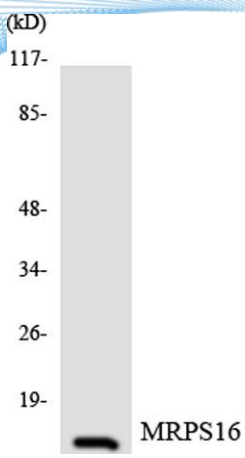

Western blot analysis of the lysates from COLO205 cells using MRPS16 antibody.

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