Best Tools for immunology Research

MRP-S16 Polyclonal Antibody

Catalog No :	YT2875
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	MRP-S16
Fields :	>>Ribosome
Gene Name :	MRPS16
Protein Name :	28S ribosomal protein S16 mitochondrial
Human Gene Id :	51021
Human Swiss Prot No :	Q9Y3D3
Mouse Gene Id :	66242
Mouse Swiss Prot No :	Q9CPX7
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.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 15kD

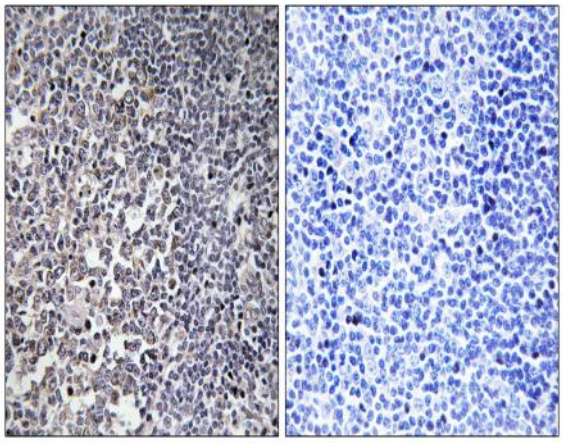
Background : Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared 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 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

Function : disease:Defects in MRPS16 are the cause of combined oxidative phosphorylation deficiency type 2 (COXPD2) [MIM:610498]. Defects in the mitochondrial oxidative phosphorylation system result in devastating, mainly multisystem, diseases. COXPD2 symptoms include fatal neonatal metabolic acidosis with agenesis of the corpus callosum.,similarity:Belongs to the ribosomal protein S16P family.,subunit:Component of the mitochondrial ribosome small subunit (28S) which comprises a 12S rRNA and about 30 distinct proteins.,

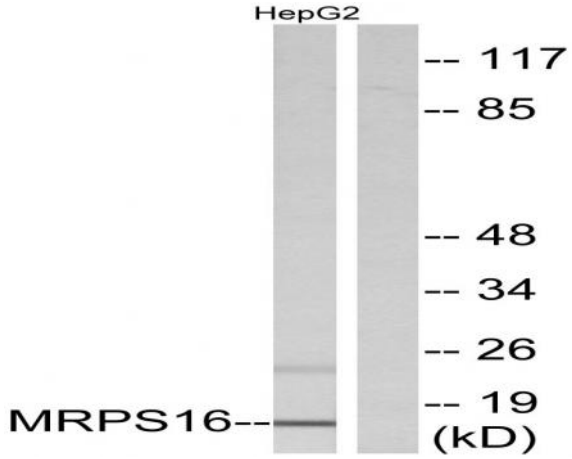
Subcellular Location : Mitochondrion .

Expression : Muscle,

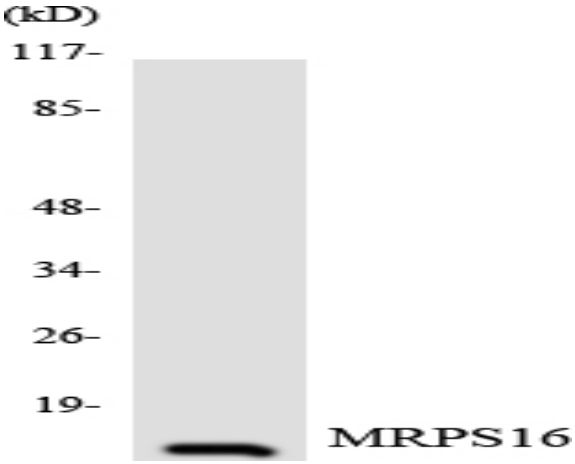
Products Images



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.



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