



MRP-S16 Polyclonal Antibody

Catalog No	YP-Ab-04005
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	MRPS16
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MRPS 16;MRP S16;COXPD2;CGI-132;CGI132:S16mt;RPMS16;MRP-S16;MRPS16;28S ribosomal protein S16 mitochondrial;28S ribosomal protein S16;mitochondrial;S16mt
Observed Band	15kD
Calculated Molecular Weight	15kD
Cell Pathway	Mitochondrion .
Tissue Specificity	Muscle,
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.,

**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

matters needing attention

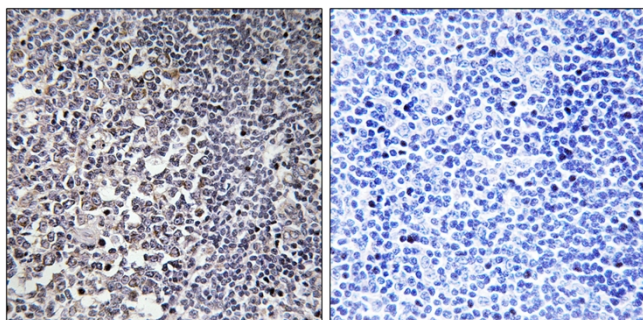
Avoid repeated freezing and thawing!

Usage suggestions

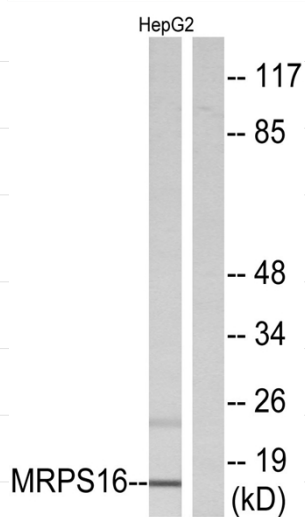
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



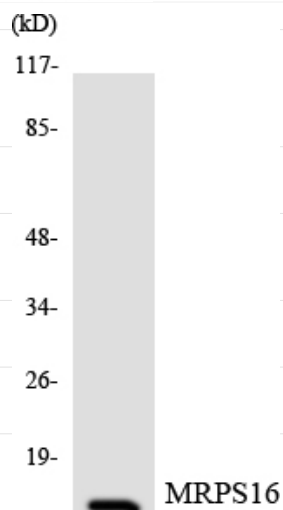
Products Images



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.