

## MRPS16 Antibody

Catalog No: #34310

Package Size: #34310-1 50ul #34310-2 100ul

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## Description

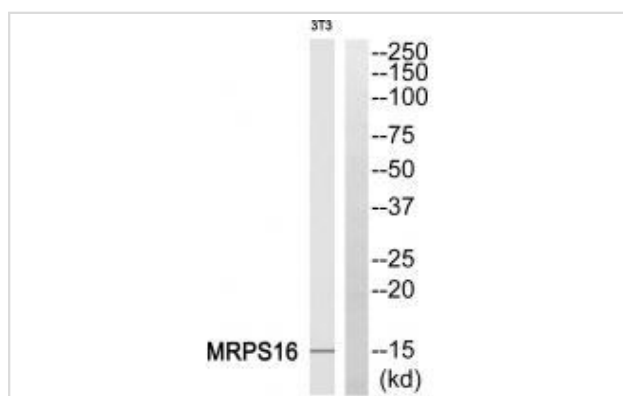
Product Name	MRPS16 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous levels of total MRPS16 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human MRPS16.
Target Name	MRPS16
Other Names	mitochondrial ribosomal protein S16; MRP-S16; RPMS16; RT16; S16mt
Accession No.	Swiss-Prot: Q9Y3D3NCBI Gene ID: 51021
Uniprot	Q9Y3D3
GeneID	51021;
SDS-PAGE MW	15kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 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

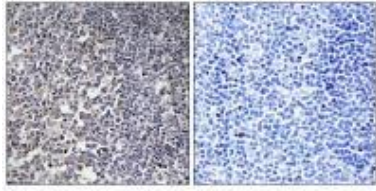
Immunohistochemistry: 1:50~1:100

## Images



Western blot analysis of extracts from HepG2 cells, using MRPS16 antibody #34310.

Immunohistochemistry analysis of paraffin-embedded human tonsil tissue using MRPS16 antibody #34310.



## 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, 20q13.32, 22q12-q13.1) for this gene have been described.

Lai C.-H., Genome Res. 10:703-713(2000).

Suzuki T., J. Biol. Chem. 276:33181-33195(2001).

Kenmochi N., Genomics 77:65-70(2001).

Note: This product is for in vitro research use only