

## MRP-S5 rabbit pAb

Cat No.: ES7208

For research use only

## Overview

Product Name MRP-S5 rabbit pAb

Host species Rabbit
Applications IHC;IF;ELISA

Species Cross-Reactivity Human; Rat; Mouse;

**Recommended dilutions** 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 MRPS5. AA

range:367-416

**Specificity** MRP-S5 Polyclonal Antibody detects endogenous

levels of MRP-S5 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 S5 mitochondrial

Gene Name MRPS5

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** 

**Human Gene ID** 64969 **Human Swiss-Prot Number** P82675

Alternative Names MRPS5; 28S ribosomal protein S5; mitochondrial;

MRP-S5; S5mt

**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



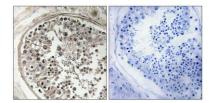
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compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ 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 S5P family. Pseudogenes corresponding to this gene are found on chromosomes 4q, 5q, and 18q. [provided by RefSeq, Jul 2008],

Immunohistochemistry analysis of paraffin-embedded human testis, using MRPS5 Antibody. The picture on the right is blocked with the synthesized peptide.



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