# MRPS16 Polyclonal Antibody

Catalog Number: E-AB-62435



Note: Centrifuge before opening to ensure complete recovery of vial contents.

# **Description**

Reactivity Human, Mouse, Rat

**Immunogen** Recombinant fusion protein of human MRPS16 (NP\_057149.1).

Host Rabbit
Isotype IgG

**Purification** Affinity purification

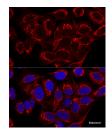
**Conjugation** Unconjugated

**Formulation** PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Applications Recommended Dilution** 

**IF** 1:50-1:200

### Data



Confocal immunofluorescence analysis of U2OS cells using MRPS16 Polyclonal Antibody at dilution of 1:100. Blue: DAPI for nuclear staining.

# Preparation & Storage

**Storage** Store at -20°C. Avoid freeze / thaw cycles.

# **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.

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